

AUTOMATIC
MOUNTING
PRESS

SIMPLIMET® 3000

BUEHLER®



Fully Automatic
Mounting Press With
Automatic Mold Sensing
and Preload

25 Method
Programmability Plus 4
Default Methods

Thermoplastic Function
With Linear Cooling

1" - 2" (25mm - 50mm)
Duplex Mold Capacity



Setting the Standard in Automation & Versatility



State-Of-The-Art Automatic Mounting Press

- State-of-the-art mounting press with automatic mold sensing and full programmability increases productivity, ease-of-use, and sample consistency
- Automatic mold sensing detects the mold size and loads the appropriate parameters thus eliminating the need for look up tables
- Alternatively select from 4 Buehler mold size specific, preprogrammed methods or program up to 25 of your own methods
- THERMOPLASTIC® function loads the correct parameters for use with thermoplastic compounds and provides controlled, linear cooling of the mount
- Linear cooling allows full polymerization resulting in the best mount clarity, and can be used for delicate parts where thermal shock is undesirable
- LCD Display with user-friendly touch panel controls

- User selectable pressure, temperature, heating time, cooling time, language, and units of measure
- For use with all thermosetting and thermoplastic resins including PHENOMET™ (phenolics), EPOMET® F & G (epoxies) PROBEMET™, KONDUCTOMET®, diallyl phthalates, and TRANSOPTIC®

Fast Operation and Convenient Mold Change

- Efficient heating/cooling system is mechanically mated to the molds to maximize heat transfer to and from the mold to ensure fast cycle times
- Mechanically mating the system to the molds, instead of using an integrated system, allows the operator to select a variety of mold sizes for an affordable price, now and in the future
- Easy-to-change molds are offered in a full range of sample sizes from 1" - 2" (25mm-50mm)

- Mold cylinders simply slide into place and are locked down with set screws for quick mold changes
- Easy-to-use dovetail connection for the lower rams eliminate the need for mechanical fastening

Durable, Safe Mounting

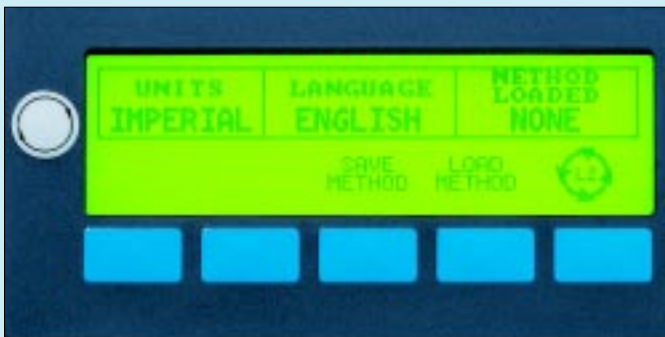
- Safe electrohydraulic system requires no air
- Robust bayonet mold closure maximizes safety and eliminates incorrect mold closings
- Bayonet mold closure eliminates the need to clean cylinder threads before closing and the need to replace molds because of worn threads
- Insulated mold closure, keeps heat in the mold cylinder where needed and out of the mold closure to protect the operator
- Bayonet closure is supported when open and can be swung to either side for better mold access, convenience, and quick turnaround



The SIMPLIMET 3000 features a Liquid Crystal Display (LCD) with easy-to-use touch panel controls. Simply scroll to the desired parameter and adjust with the up/down arrow keys.



The default screen controls the most commonly used functions: Heat Time, Cool Time, Pressure, Temperature, Preload, Ram Move and Cycle Start. The automatically sensed mold size and other functions are displayed after scrolling to the right.



The Units of Measure, Language, and Method Save and Load are operated from the second screen. The method loaded is displayed for operator convenience. "None" is displayed under method loaded when the operator changes the parameters to something different from a loaded method.



Use the Next, Previous, and Load functions to select from 4 pre-programmed Buehler methods. Additionally modify and save up to 25 of your own methods.



Changing mold assemblies takes less than a minute with the lower ram dovetail connection.



Insulated bayonet closure system provides both speed and safe operation.



A full range of mounts from 1" - 2" (25mm-50mm) in diameter can be produced simply by changing mold assemblies. All mold assemblies include a duplex spacer providing the capability to produce two standard size mounts simultaneously.

Technical Data

Automatic Mounting Press
with automatic mold size
sensing, parameter loading,
and programmability

Method Programmability:

4 Buehler Preprogrammed Methods
per mold size
25 User Definable Methods

Preload:

0 - 400 psi in 50 psi increments
0 - 30 bar in 5 bar increments

THERMOPLASTIC Function with Linear Cooling:

Automatically sets correct
parameters for thermoplastic resins
such as TRANSOPTIC® and cools the
mount in a controlled, linear fashion

Operation:

Automatic electro-hydraulic

Molding Pressure:

1200 - 4400 psi (80 - 300 bars)
in 100 psi (5 bar) increments

Molding Temperature:

120° - 360°F in 20°F increments
50° - 180°C in 10°C increments

Heating Power:

1500 Watt on 220V mains
1500 Watt on 115V mains
1200 Watt on 100V mains

Heating Time:

0 - 20 minutes in 10 second increments

Cooling Time:

0 - 30 minutes in 10 second increments

Mold Type:

Cylindrical, including upper and lower
rams and duplex mold spacer

Closure Type:

Insulated bayonet with position detent

Mold Diameters:

25mm, 1", 30mm, 1¼", 1½", 40mm,
50mm, and 2"

Touch-pad Controls:

- On/Off
- Heat Time
- Cool Time
- Molding Temperature
- Molding Pressure
- Mold size
- Ram Up/Down
- Manual Cool
- Cycle Start

Units of Measure:

Imperial or Metric

Languages:

English, French, German, (Portuguese,
Japanese, Korean, Chinese - available
Autumn 2000)

Control Voltage:

24 VDC

Other Features:

- Compact footprint configuration
- Closure retainer
- Easy to clean molded cabinet
- Ergonomically positioned control
panel
- Last setting retained programmability

Mains:

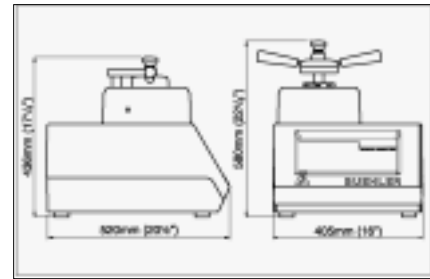
84-264V/50-60Hz/1 phase

Weight:

73 lbs. (33kg)

Dimensions:

W	x	D	x	H
16"	x	20½"	x	22⅞"
405mm	x	520mm	x	580mm



Dimensions for SIMPLIMET 3000

Specifications

SIMPLIMET 3000 Automatic Mounting Press includes mold closure, all necessary hoses, fittings, and cables for installation, tools, and operating instructions. (Mold assemblies with duplex mold spacers supplied separately.)

Catalog Number	Description
20-1435	SIMPLIMET 3000 Automatic Mounting Press (84-264V/50-60Hz/1 phase)
20-2401	Mold Assembly with Duplex Spacer, 1"
20-2402	Mold Assembly with Duplex Spacer, 1¼"
20-2403	Mold Assembly with Duplex Spacer, 1½"
20-2404	Mold Assembly with Duplex Spacer, 2"
20-2405	Mold Assembly with Duplex Spacer, 25mm
20-2406	Mold Assembly with Duplex Spacer, 30mm
20-2407	Mold Assembly with Duplex Spacer, 40mm
20-2408	Mold Assembly with Duplex Spacer, 50mm

For a complete listing of BUEHLER consumable mounting supplies for use with the SIMPLIMET 3000 Mounting Press, please refer to our Consumables Buyer's Guide. Buehler continuously makes product improvements; therefore, technical specifications are subject to change without notice.



BUEHLER

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