

AUTOMATIC
MOUNTING
PRESS

SIMPLIMET® 1000

BUEHLER®



Cost-Effective
Automatic Mounting

Electro-Hydraulic
Operation

Easy-To-Use System
with LCD Display

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

Simplicity for Your Pressing Applications



Easy-To-Use Automatic Mounting Press

- Basic automatic press increases productivity and sample consistency
- Liquid Crystal Display (LCD) with user friendly touch panel controls
- Last settings retained programmability which provides quick start-up and sample consistency, especially with multiple operators and mounting medias
- User selectable pressure, temperature, heating time, cooling time, mount size, language, and units of measure
- For use with all thermosetting resins including Phenolics, EPOMET®, PROBEMET™, KONDUCTOMET® I and Diallyl Phthalate

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
- Easy-to-use dovetail connection for the lower rams eliminate the need for mechanical fastening

Durable, Safe Mounting

- Safe electro-hydraulic 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 1000 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, Mold Size, Temperature, Ram Move and Cycle Start.



The Units of Measure, Language, and Manual Cool functions are operated from the second screen. For convenience the mounting cycle can be activated from both LCD screens.



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



Insulated bayonet closure system provides both speed and safe operation.



All mold assemblies include a duplex spacer providing the capability to produce two standard size mounts simultaneously.



A full range of mounts from 1" - 2" (25mm-50mm) in diameter can be produced simply by changing mold assemblies.

Technical Data

Operation:

Automatic electro-hydraulic

Molding Pressure:

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

Molding Temperature:

300° and 350°F (150° and 180°C)

Heating Time:

0 - 20 minutes in 10 second increments

Cooling Time:

0 - 30 minutes in 10 second increments

Heating Power:

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

Mold Type:

Cylindrical, including upper and lower
rams and duplex mold spacer

Closure Type:

Insulated bayonet with position detent

Mold Diameters:

25mm, 1", 30mm, 1¹/₄", 1¹/₂", 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

Control Voltage:

24 VDC

Languages:

English, French, German, (Portuguese,
Japanese, Korean, Chinese - available
Autumn 1999)

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)

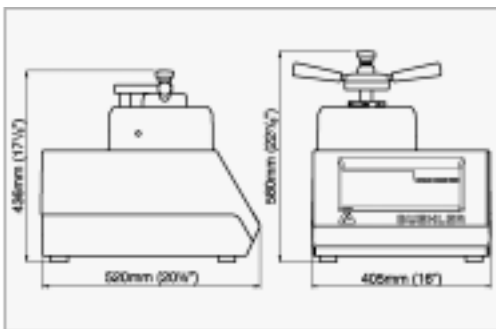
Dimensions:

W	x	D	x	H
16"	x	20 ¹ / ₂ "	x	22 ⁷ / ₈ "
405mm	x	520mm	x	580mm

Specifications

SIMPLIMET 1000 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
20-1415	SIMPLIMET 1000 Automatic Mounting Press (84-264V/50-60Hz/1 phase)
20-2401	Mold Assembly with Duplex Spacer, 1"
20-2402	Mold Assembly with Duplex Spacer, 1 ¹ / ₄ "
20-2403	Mold Assembly with Duplex Spacer, 1 ¹ / ₂ "
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



Dimensions for SIMPLIMET 1000

For a complete listing of BUEHLER consumable mounting supplies for use with the SIMPLIMET 1000 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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