

# SimpliMet™ XPS1

Automatic Compression Mounting System



# SimpliMet™ XPS1 Automatic Compression Mounting System

## Fast Total Cycle Times

- Makes 1.25in [30mm] mounted specimens in about 5 minutes
- Heating and cooling steps are optimized to maximize efficiency of the mounting process

## Intelligent Cooling Systems

- SmartCool™ intelligently ends the cooling step and completes the mounting process automatically once the sample is safe to handle
- Process time and water usage are optimized by SmartCool
- Thermoplastic feature controls process parameters for transparent TransOptic™ mounting media

## Intuitive User Interface

- Intuitive artwork on buttons used to control process parameters and bright, easy-to-read LED displays make the SimpliMet XPS1 easy-to-use
- Status bar monitors progress keeping operators informed throughout the mounting process
- Set and store temperature, pressure, and times

## Weightless Closure Mechanism

- Close chamber with very little downward force allowing for single-handed operation
- Lock/Unlock click-stops provide tactile feedback to operator when chamber is closed/opened
- Tapered opening mitigates against spillage of mounting media by acting as a funnel

## Safety

- Insulated mold assembly prevents exterior surfaces from getting hot during heating steps in the mounting process

## Compact Footprint

- Slim width 12.25in [311mm]



The SimpliMet XPS1 is an electrohydraulic Automatic Compression Mounting System that brings fast cycle times to the specimen mounting process. This efficiency is delivered by optimizing the typical heating and cooling steps in the mounting process.

The unit features intelligent cooling with SmartCool and Thermoplastic functions. SmartCool optimizes cooling time by monitoring sample temperature within the mold assembly; automatically terminating the process once samples have reached safe handling temperatures. Thermoplastic mode optimizes the temperature profiles required for transparent mounting media like TransOptic ensuring impeccably transparent mounted specimens every time.

The unit offers a best-in-class weightless closure mechanism which requires very little downward forces to close the mounting chamber.

Tactile feedback from the click-stops at the lock and unlock positions confidently informs the operator when the mounting chamber is closed and open.

Descriptive artwork on the intuitive controls, blue LED parameter displays, and a lighted status-bar make the unit easy-to-use and keeps the operator informed of progress throughout the entire mounting process.

The exceptionally narrow footprint at 12.25in [311mm] minimizes the bench space required by this unit in the specimen preparation laboratory. The SimpliMet XPS1 excels in fast processing, ease-of-use, convenience, and size without ever compromising on performance. For best-in-class automated compression mounting of specimens the solution is the SimpliMet XPS1.

## Weightless Closure Mechanism

SimpliMet™ XPS1 with the mold closure in the locked position. Intuitive symbols on the closure base-plate mark the click-stops at the lock and unlock positions.



## Accessory Holder

Accessory holders on the housing are useful for storing relevant hand-tools keeping them accessible and visible to the operator at all times.



## Easy to Load

SimpliMet XPS1 with the weightless mold closure fully opened and raised clear of the mold assembly. The lower ram is completely extended allowing for careful placement of a specimen.



## Integrated Status Bar

User interface with integrated status bar utilizes intuitive artwork on buttons and bright, easy-to-read displays that allow the user to effortlessly control process parameters and monitor progress throughout the mounting process.



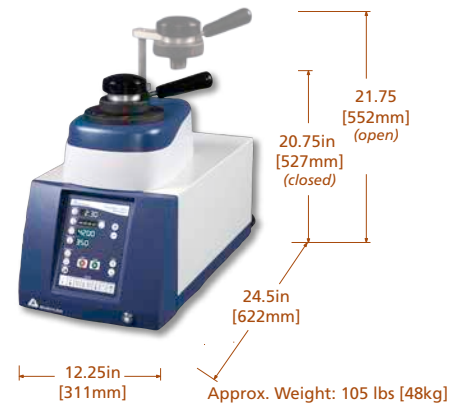
### Specifications

Operation	Automatic electrohydraulic
Power Source	85-264VAC, 50/60Hz, 1 phase
Molding Pressure	1000-4400psi [80-300bar] in 50psi [5bar] increments +/- 10%
Molding Temperature	120 - 430°F [50 - 200°C] in 10°F [10°C] increments
Heating Power	1500Watt @ 115/230VAC
Heating Time	1 - 20 minutes in 10 second increments
Cooling Time	1 - 30 minutes in 10 second increments
Mold Type	Cylindrical, including upper and lower rams
Closure Type	Insulated bayonet with piston indent
Mold Diameters	1in, 1.25in, 1.5in, 25mm, 30mm, 40mm, 50mm
Units of Measure	Pressure [psi or bar]; Temperature [°F or °C]
Preload Pressure	350psi [24bar]
Thermoplastic Function	Automatically sets correct parameters for thermoplastic resins such as TransOptic™ and cools the mount in a controlled, linear fashion appropriate for the mounting media
Compliance	CE, PSE, RoHS, WEEE

## SimpliMet™ XPS1

- Automatic electro-hydraulic compression mounting system
- User may define pressure, temperature, heating time and cool time
- Clear, easy-to-use interface
- Mold assemblies available in sizes from 1in [25mm] to 2in [50mm]

Part Number	Voltage/Frequency
20-1010-5001 with 1in Mold Assembly	85-264VAC, 50/60Hz
20-1010-5025 with 25mm Mold Assembly	85-264VAC, 50/60Hz
20-1010-5125 with 1.25in Mold Assembly	85-264VAC, 50/60Hz
20-1010-5030 with 30mm Mold Assembly	85-264VAC, 50/60Hz
20-1010-5150 with 1.5in Mold Assembly	85-264VAC, 50/60Hz
20-1010-5040 with 40mm Mold Assembly	85-264VAC, 50/60Hz
20-1010-5050 with 50mm Mold Assembly	85-264VAC, 50/60Hz
20-1010-5000 without Mold Assembly	85-264VAC, 50/60Hz



Accessories	1in	25mm	1.25in	30mm	1.5in	40mm	50mm
Mold Assembly	20-10106	20-10107	20-10108	20-10109	20-10110	20-10111	20-10113
Chamfer Ram	20-10120	20-10121	20-10122	20-10123	20-10124	20-10125	20-10127
Tapered Funnel	20-10130		20-10131		20-10132		20-10133



### Chamfered Lower Ram

Chamfered Lower Rams prepare mounted specimens with a beveled edge around the working face of the sample, thereby, eliminating any sharp edges that could adversely affect the grinding or polishing surface.

### Compression Mounting Media

20-3381-070	EpoMet™ F, fine filled epoxy, 4 lbs [1.84kg]	20-3200-080	PhenoCure Red, wood flour, 5 lbs [2.3kg]
20-3381-160	EpoMet F, fine filled epoxy, 10 lbs [4.5kg]	20-3200-080	PhenoCure Red, wood flour, 25 lbs [11.3kg]
20-3381-400	EpoMet F, fine filled epoxy, 25 lbs [11.3kg]	20-3300-080	PhenoCure Green, wood flour, 5 lbs [2.3kg]
20-3380-064	EpoMet G, regular filled epoxy, 4 lbs [1.8kg]	20-3300-400	PhenoCure Green, wood flour, 25 lbs [11.3kg]
20-3380-160	EpoMet G, regular filled epoxy, 10 lbs [4.5kg]	20-8185-002 <sup>†</sup>	Release Agent, 2oz [6mℓ]
20-3380-400	EpoMet G, regular filled epoxy, 25 lbs [11.3kg]	20-8185-016 <sup>†</sup>	Release Agent, 16oz [470mℓ]
20-3100-080	PhenoCure™ Black, wood flour, 5 lbs [2.3kg]	20-8185-032 <sup>†</sup>	Release Agent, 32oz [950mℓ]
20-3100-400	PhenoCure Black, wood flour, 25 lbs [11.3kg]	20-3048	Powdered Mold Release, 1.6oz [45g]

<sup>†</sup> Restricted article, requires special packaging



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