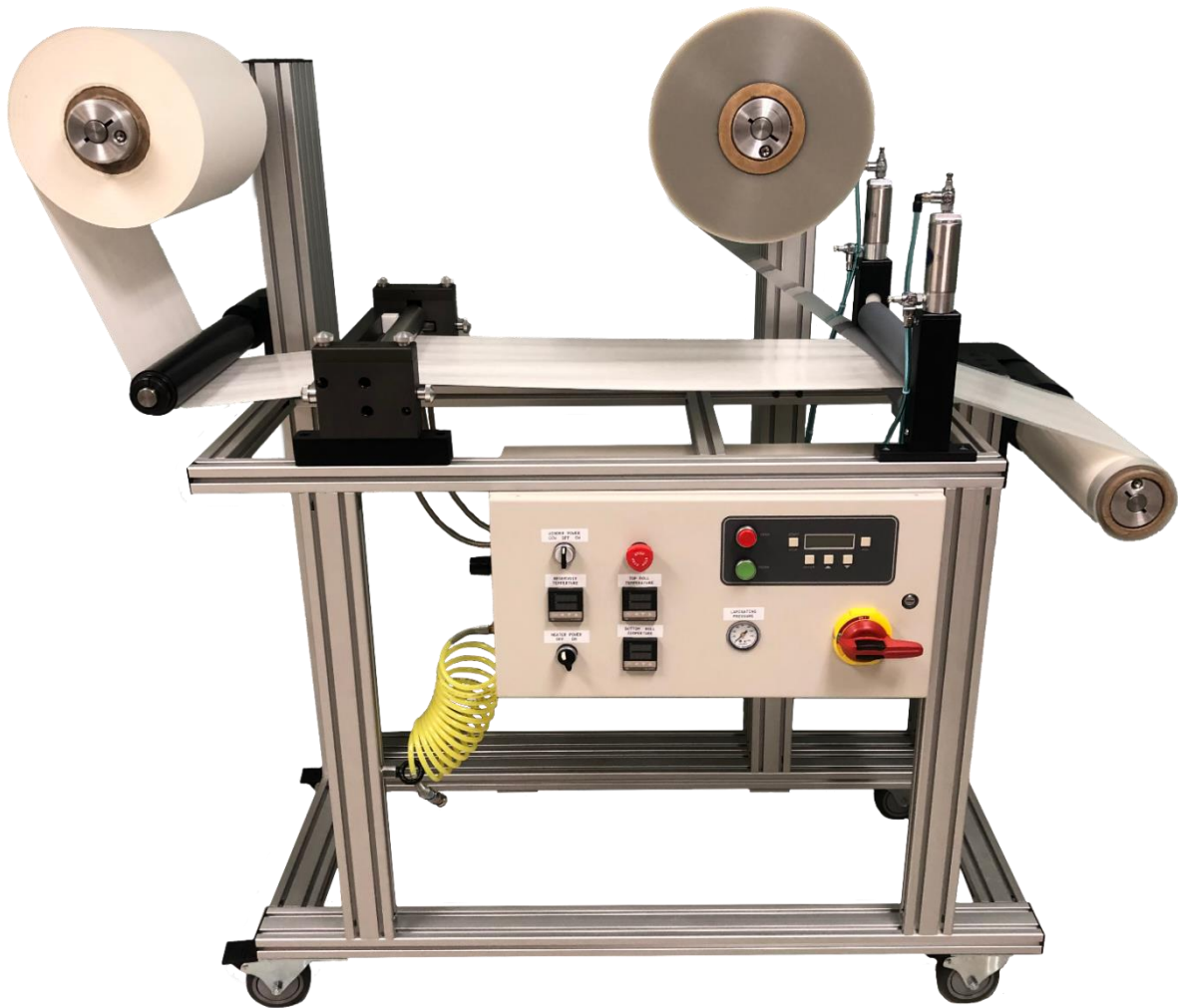




Mini Coater – Hot Melt Version



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Specifications

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Overview: The Mini-Coater is a versatile and compact coating system designed for precise and uniform application of hot melt coatings and lamination on small-scale substrates. This customized cart-based machine combines an Unwinding Roll #1, Idler Roll, Hot Melt Coater, Unwinding Roll #2, Laminator, and Rewind to provide a comprehensive coating and laminating solution.

Key Features:

1. Unwinding Roll #1:

- Cantilevered design for easy access and operation.
- Air-powered shaft with 3" core, accommodating up to a 13" maximum web width.
- Unwind includes a variable force, 25-pound, magnetic braking module for precise tension control.
- Substrate capacity: 3" core, 13" maximum web width, 9" maximum outer diameter.
- Integrated into the Customized Cart for optimized mobility and space utilization.

2. Idler Roll:

- Cantilevered design for efficient substrate leading into the Hot Melt Coating nip.
- Adjustable height to ensure precise alignment and coating application.
- 3" outer diameter by 13" wide aluminum roller with polished and anodized surface for smooth coating.

3. Hot Melt Coater:

- Utilizes the standard UC-200 coating head designed for 13" wide web substrates and 12" wide coatings.
- Heating controls integrated into the main control cabinet.
- Frame rail mounted for stability and rigidity during operation.
- Offers operational specifications similar to the standard unit available on the ChemInstruments website.

<https://www.cheminstruments.com/universal-coater.html>

4. Unwinding Roll #2:

- Cantilevered design for easy access and setup.
- Air-powered shaft with 3" core, suitable for up to 13" maximum web width.
- Unwind equipped with a variable force, 25-pound, magnetic braking module for precise tension control.
- Substrate capacity: 3" core, 13" maximum web width, 9" maximum outer diameter.
- Integrated into the Customized Cart for optimized mobility and space utilization.

5. Laminator:

- Based on the standard LL-100 benchtop laminator designed for 13" wide web substrates.
- Room temperature laminator for versatile laminating applications.
- Top and bottom rolls made of 2" silicone rubber covered material with 80 durometer for consistent lamination.

- Independent variable speed motor for flexible control over lamination speed.
- Speed range of 1.0-12.5 fpm (30-375 cm/m) for various production needs.
- Laminator controls integrated into the main control cabinet.
- Frame rail mounted for stability and rigidity during operation.

<https://www.cheminstruments.com/benchtop-laboratory-laminator.html>

6. Rewind:

- Cantilevered design for easy access and winding operations.
- Air-powered shaft with 3" core, supporting up to 13" maximum web width.
- Rewind includes a variable force, 25-pound, magnetic clutching module for precise tension control.
- Independent set-speed motor for flexible control over the rewinding process.
- Located just past the Laminating nip for ease of access and efficient winding.
- Adjustable height to accommodate various winding angles from the Laminator nip.

7. Customized Cart:

- Custom-designed cart equipped with locking swivel wheels for easy mobility and positioning.
- Frame rails offer flexibility in locating the various components for optimal arrangement.

- Compact dimensions, not exceeding 48” long x 32” deep x 57” high, ensuring space efficiency.
- Customized control cabinet designed to hold all required controls, including electric and pneumatic.

Applications: The Mini-Coater is ideal for small-scale coating and laminating applications in research, development, and small-batch production environments. Its precise and user-friendly design ensures consistent results for various substrates and coating materials.

Power Requirements:

- 120VAC / 1 Phase / 20 amp breaker
- or**
- 240VAC / 1 phase / 15 amp breaker

Air Requirement:

- 80 PSI required for operation

Price and Delivery

- Mini Coater – Hot Melt Version
 - \$39,500 USD
- Payment terms:
 - Prepay (international) / Net 30 (USA only)
- Crating:
 - Extra-large HT crate - \$325 USD
- Delivery:
 - 2-3 months to build

Mini Coater VS. HLCL-2000

Which is right for you?

Comparing the Mini Coater and HLCL-2000 reveals both similarities and differences. The Mini Coater boasts cantilevered rolls, multiple unwinds, motorized rewind, adjustable roll heights, and a magnetic brake system. In contrast, the HLCL-2000 shines in simulating production processes at lab scale and boasts a successful track record in hot melt coating and laminating. Regardless of your preference, both ensure efficient, top-quality coating. The decision is yours: embrace Mini Coater's innovation or tap into HLCL-2000's traditional expertise.

Features	Mini Coater	HLCL-2000
Cantilevered Rolls	Yes	No
Ability to have multiple unwinds	Yes	No
Motorized Rewind	Yes	No
Air Powered Shaft	Yes	No
Adjustable Roll Heights	Yes	No
Mounted on a cart	Yes	No
Compact Design	Yes	Yes
Adjustable Gap	Yes	Yes
Brake Type	Magnetic	Friction
Digital speed control	Yes	Yes
120V or 240V	Yes	Yes
Price	Higher	Lower



510 Commercial Drive

Fairfield, Ohio 45014

Phone: 513 860-1598

Email: sales@cheminstruments.com

Web: www.ChemInstruments.com