PLUG & PLAY PILOT LINE

Expandable Modular System is Configurable for a Single-Zone or Two-Zone Dryer

The LabMaster is a pre-engineered pilot coater/laminator that is ideally suited for R&D and narrow web production coating/laminating. Pre-engineering allows Faustel to offer the LabMaster at an economical price, with a shortened delivery cycle.
Medical and dental film products expand to other markets.

Faustel helped Carestream Health, of White City, Oregon, move beyond medical films to solar energy, fuel cells and flexible electronics with a LabMaster™ Pilot Coater. New coating development is underway for solar, battery and fuel-cell assemblies: membranes and other high-value coating applications.

“This operation is intended to help customers by providing fast and low-cost product and process-development capability,” says Bruno Merry, General Manager of Advanced Materials Group at Carestream Health. “In the few months since the LabMaster™ was commissioned, we’ve been very happy with the number of people who have taken advantage of the facility.”

“Our coating operation is now more versatile and flexible. Customers use it for small-volume production, product development, and to experiment with various combinations of substrates and coatings,” says Merry.
LabMaster™

Pre-Engineered for Lowest Cost and Quickest Delivery

The LabMaster Plug & Play Coating Line is a complete pilot line that includes two unwinds, roll coater module, dryer, dry bond laminator with chill rolls, and rewind with integrated drives and controls. Modules are interchangeable so the LabMaster can be configured for a variety of standard and optional coating methods that satisfy a broad range of applications. A wet bond laminator module is also optional.

The base LabMaster configuration includes a single-zone 3-meter dryer and an additional 3-meter dryer zone can be ordered with the machine or added at any time. The modular design minimizes installation time and costs while maximizing flexibility. The LabMaster process webs up to 300mm wide, accommodates material rolls up to 300mm OD, and runs at speeds up to 30m/min.

The LabMaster functions as a narrow web production machine for those whose needs fall within the capability of the design. We have a demonstrator at the Faustel Technical Center to help with this determination.

Flexible Design Allows for the Addition of Modules

LabMaster™ with Single-Zone
l. 5,757mm
d. 2,309mm
h. 2,512mm; 2,717mm with UV

LabMaster™ with Two-Zones
l. 9,292mm
d. 2,309mm
h. 2,512mm; 2,717mm with UV
Coating & Laminating Modules

Reverse Roll Coater Module
Roll Coater Module
Knife Over Roll Module
Slot Die Coater Module
Dry Bond Laminator w/optional UV Curing

Coating & Laminating Methods

Polishing Bar (Typical)
Direct Gravure Forward
Direct Gravure Reverse
Offset Gravure Forward
Offset Gravure Reverse
One Roll Smooth Kiss-Forward/Reverse
Two Roll Smooth Kiss-Forward/Reverse
Two Roll Smooth Nip-Forward
Three Roll Smooth Nip-Forward
Dry Bond Laminator
Mayer Rod
Reverse Roll (Optional)
Slot Die (Optional)
Knife Over Roll (Optional)
Wet Bond Laminator (Optional)
### LabMaster™ Benefits
- Preengineered for lowest cost and quickest delivery.
- Preassembled — minimum installation costs.
- Unitized frame — simple mechanical installation, easy to transport and relocate.**
- Plug & Play capability requires minimal on-site installation with a single-point interface for electrical, exhaust, and compressed air.
- Variety of standard and optional coating and laminating methods that can be added in the future.
- Expandable to two dryer zones.

### LabMaster™ Capabilities*
- Roll or slot-die coating
- Water, solvent, or hot-melt coating
- Dry and wet bond laminating

### LabMaster™ Specs
- Includes Two Unwinds, Roll Coater, Dryer, Laminator with Chill Rolls and Rewind with Integrated Drives and Controls.
- Materials: Paper, Film, Foil, Non-wovens
- Web Widths: Up to 300mm
- Speed: Up to 30m/min.
- Roll size up to 300mm OD

### Options
- Slot Die Coater
- Knife Over Roll Coater
- Reverse Roll Coater
- Flexo Printer
- Rotary Screen Printer
- Wet Bond Laminator
- UV Curing
- Corona Treater
- Load Cell Control
- Static Eliminators

*Optional equipment may be required.

**Single-Zone system ships in two sections. Two-Zone system ships in three sections.

### Process Development and Technology Center

#### Research & Development
The LabMaster can be used for small-volume production, product development, and to experiment with various combinations of substrates and coatings making coating operations more versatile and flexible. Add the LabMaster to your own Technology Center or come in and experiment with ours.

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*300mm LabMaster™ Pilot Coater.*

*600mm Production-Level Coating Line*

*Quality Control Lab*

*Coating Mixer*
Complete lines, components, and control systems engineered and built to meet your unique specifications.

**Preengineered System Solutions (LabMaster™ and MLC-600)**
- System Options Configurable to your Process
- Rapid Delivery
- Economical to Install

**Specialized Solutions**
- Battery and Battery Separators
- Reverse Osmosis Membranes
- Window Film
- Tape and Label
- Vinyl Casting
- *Don’t see your solution? Please call (262) 253-3333.*

**Custom Solutions**
- Proven technology configured to your unique process requirements
- Stand-alone components to complete lines

**Leading-Edge Technology**
- Winding & Unwinding
- Splicers & Transfers
- Coating (Stand Alone, Fixed Frame, Cartridge)
- Laminating (Wet Bond, Dry Bond, Thermal Bond)
- Drying (Roll Support, Belt, or Air Flotation)
- Curing (UV, E-Beam)
- Clean & Dry Room Configurations
- Drives & Controls
- Installation & Start Up

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**Process Development**

The **In-House Technology Center** is available for product development. It incorporates all well-known drying and curing technologies as well as a wide variety of coating, laminating, and winding capabilities.

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**Parts & Service**

The **24-hour Technical Service Center** is staffed with engineering specialists who have access to your drawings, PLC programs, and vendor information to provide quick response and minimize your downtime.

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**Contact Faustel Today**

W194 N11301 McCormick Dr.
Germantown, WI 53022

(262) 253-3333
www.faustel.com
sales@faustel.com