

BOOSTING YOUR FABRIC PERFORMANCE

WITH OVER 50 YEARS
OF EXPERIENCE

HOT MELT LAMINATION / COATING

MULTI-ROLLER HOT MELT LAMINATION

POWDER SCATTERING / LAMINATION / COATING

BONDING / FILM LAMINATION

EMBOSSING



MURATEX
TEXTILE MACHINERY CO.

BOOSTING YOUR FABRIC PERFORMANCE

WITH OVER 50 YEARS OF EXPERIENCE



Doğan Çetin
1942-2020

In the fond memory of our beloved founding partner and former CEO - a visionary innovator and inventor and one of the earliest pioneers in Turkish Textile Machinery Sector

Muratex is a family business founded in 1970, dedicated to the design, manufacture, and construction of bespoke technical textile machinery.

We are one of the few technology companies to provide a key role in the technological development of many leading textile companies.

With our innovative systems combined with a practical vision, we produce bespoke and traditional textile machinery for the tech textile, home textile, automotive, aerospace, and marine industries.

Our bespoke machines benefit our collaboration with existing and new customers tailoring them to their exact needs, and opening up new markets and applications.

More than 50 years of experience, combined with extensive knowledge of the applications required, enable Muratex to supply machines to develop customers' businesses, often at a very attractive price, without compromising on quality or speed.

Our experience and knowledge combined with first-class mechanical engineering are what we pass on to you - our customer and partner. We welcome the challenges our customers pose to us by developing customized machines to meet their needs.

We hope Muratex can be your partner of choice and look forward to discussing your new ideas and projects.

Murat Çetin
CEO



Participating to ITMA since 1987

INSTALLATIONS IN 50 COUNTRIES WORLDWIDE



EUROPE

- Belarus
- Belgium
- Bulgaria
- Denmark
- Finland
- France
- Greece
- Ireland
- Italy
- Lithuania
- Moldova
- Netherlands
- Norway
- Portugal
- Poland
- Romania
- Spain
- Sweden
- Türkiye
- Ukraine
- United Kingdom

ASIA

- China
- Israel
- India
- Indonesia
- Iran
- Japan
- Lebanon
- Pakistan
- South Korea
- Sri Lanka
- Syria
- Thailand
- UAE
- Uzbekistan
- Vietnam

AMERICA

- Argentina
- Brazil
- Canada
- Ecuador
- El Salvador
- Mexico
- Peru
- USA

AUSTRALIA

- Australia

AFRICA

- Algeria
- Egypt
- Libya
- Morocco
- South Africa
- Sudan
- Tunisia

More than
4 Million Meters
fabric processed in
our machines every day
in the world

More than
1750 Machines
Muratex Machines
sold in 5 continents



FIELDS OF APPLICATION
 Technical Composites, Home Textiles, Upholstery Fabrics,
 Mattress Ticking, Automotive Interiors, Fusible Interlining,
 Hygiene and Medical Products, Activewear (Outdoor),
 Functional and Protective Clothing

HOT MELT LAMINATION MACHINE

Muratex has developed an advanced and compact Hot Melt Lamination Machine specifically designed for the lamination of textiles and technical materials. Hot melt adhesives are widely used in the textile industry and are available in two forms: one-component, solvent-free thermoplastic polymers (non-reactive) and thermosetting pre-polymers (reactive).

This machine is capable of performing both film adhesive hot melt lamination and reactive polyurethane (PUR) lamination on a wide range of materials, including woven fabrics, jersey fabrics, elastic fabrics, films, breathable membranes, foams, and abrasive sponges. Additionally, various engraved lamination rollers can be supplied to meet specific application requirements.

The load-cell-based control system ensures precise tension control according to predefined setpoints. Furthermore, the web-guiding system guarantees accurate alignment of all material layers throughout the lamination process.

Solution for Textile & non-Textile Lamination

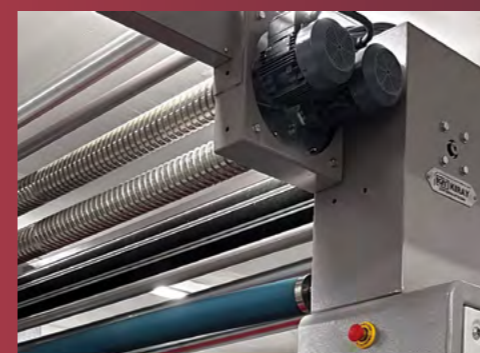
- Membranes
- Foams
- Films
- Woven fabrics
- Nonwoven fabrics
- Knitted fabrics



Working width adjustment system



Blade position stopper



Automatic web guiding system



Fabric unwinding unit

TECHNICAL SPECIFICATIONS

Standard Features

- Engraved cylinder
- Load cell system for fabric feeding synchronization
- Free-running brush spreading roller for membrane and fabric applications
- Silicon-covered pneumatic pressure rolls
- Stainless steel cleaning tank for automatic engraved cylinder cleaning
- Heatable Teflon-coated blade system with pneumatic pressure
- Teflon-coated metal bottom cylinder for squeezing system
- Distance adjustment system (electronically)
- 10" touch screen operator panel with plc control
- Heating up and cooling down the system
- Web guiding system
- All the cylinders working as a synchronized system

Optional Features

- Fabric tension control unit
- Slitting system (crush cutting, shear cutting, and edge trimming)
- Cross cutter unit
- Motorized unwinding & rewinding unit
- A-frame to A-frame working system
Trolley to A-frame

Machine Width Options

1800mm, 2000mm, 2200mm, 2600mm

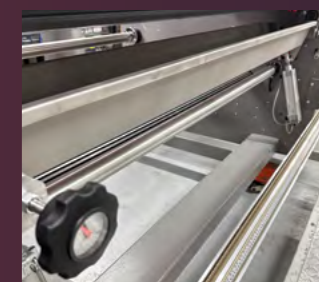
*For special working widths and drum diameters,
please contact Muratex for customized solutions.*



Air Shaft



Engraved application cylinder



Engraved cylinder cleaning tank



FIELDS OF APPLICATION
 Composites Industry, Shoe Toe Reinforcement
 Materials, Airbag Fabrics, Technical Fabrics,
 Upholstery Fabrics, Jersey Fabrics, Films, Paper
 Applications and Other Industrial Coating Applications

MULTI-ROLLER HOT MELT COATING MACHINE

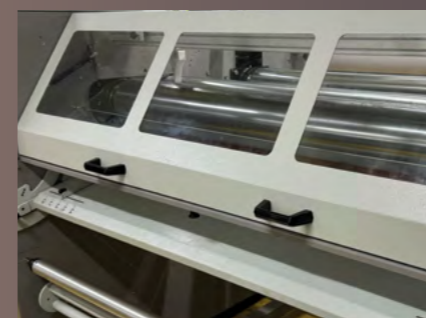
Muratex has designed and developed multi-roller hot melt coating machines for high-precision adhesive coating applications. This machine is specifically engineered for the application of thermoplastic hot melt adhesives on various substrates, ensuring excellent coating uniformity, precise coating weight control, and stable production performance.

The multi-roller coating system utilizes precision-engineered transfer cylinders and synchronized roller movements to ensure accurate adhesive distribution across a wide range of materials, including woven fabrics, knitted fabrics, nonwoven materials, foams, films, paper, upholstery fabrics, airbag materials, and shoe reinforcement components. Industries such as composites, footwear manufacturing, automotive textiles, and upholstery fabric processing can benefit from this versatile coating technology.

The machine can be equipped with a drum melter for adhesive supply and can be easily integrated into existing production lines. Additional components such as unwinding units, rewinding units, load-cell systems, and auxiliary devices can be supplied to meet specific production requirements. These options ensure continuous and efficient operation.

Solution for Textile & non-Textile Lamination

- Foams
- Fabrics
- Woven fabrics
- Nonwoven fabrics
- Knitted fabric
- Other technical applications



Safety Cover



Hard Chromium-Coated Adhesive
Transfer Cylinders



Servo-Controlled Cylinder
Positioning System



Teflon & Silicon-Coated
Squeezing Rollers



Width-Adjustable Feeding Table

TECHNICAL SPECIFICATIONS

Standard Features

- Heated hard chromium-coated cylinder
- Servo-controlled gap adjustment system
- Hard chromium-coated adhesive transfer cylinders
- Silicon-covered pneumatic pressure cylinder
- Width-adjustable feeding table*
- Fabric spreading roller
- Manual fabric tension control system
- Teflon-coated metal top cylinder for the squeezing system
- Silicon-covered pneumatic pressure bottom cylinder for the squeezing system
- 10" touch screen operator panel with PLC control

**For foam applications*

Optional Features

- Servo actuators for automatic gap adjustment
- Roll to roll or A-Frame to A-Frame Working system
- Paper/Film unwinding & rewinding system
- Load cell system

Machine Width Options

1800 mm, 2000 mm, 2200 mm, and 2600 mm

*For special working widths and drum diameters,
please contact Muratex for customized solutions.*



FIELDS OF APPLICATION
 Technical Textiles, Home Textiles, Flooring, Composites,
 Automotive Textiles, Nonwoven Textiles, Recycling,
 Construction Materials, Electrical Applications, Filter Media,
 Food Industry Applications

POWDER SCATTERING UNIT & POWDER LAMINATION LINE

POWDER SCATTERING UNIT

A scattering roller coated with a special needle covering, combined with a precisely adjustable brush belt, ensures highly accurate and uniform application of powder materials. This scattering system provides an adjustable working width between 50 mm and 5000 mm, depending on the machine configuration, while allowing application weights from 3.0 g/m² and above according to customer requirements.

Our user-friendly scattering system offers a cleaning time of less than 5 minutes, minimizing downtime during maintenance and product changeovers. The scattering process can be easily controlled through the operator panel, where processing parameters can be stored for each production recipe, ensuring excellent repeatability, consistency, and production efficiency.

We offer scattering units for various powder materials such as:

- Thermoplastic Adhesive Powders
- Epoxy Powders
- Recycled Materials
- Activated Carbon
- Filling Materials
- Sand
- Grains and Other Powder-Based Materials



Customized solutions
for your specific needs

POWDER LAMINATION LINE

The touch of expert hands ensures perfection. Attention to detail, state-of-the-art technology, and commitment to quality distinguish Muratex Powder Lamination Lines. Designed to meet specific production requirements, our systems provide reliable performance, consistent product quality, and efficient production processes.

Our Powder Lamination Line is specially designed to help customers achieve superior lamination results across a wide range of textile and technical applications.

TECHNICAL SPECIFICATIONS

Optional Features

- Fabric tension control system
- Slitting system (crush cutting, shear cutting & edge trimming)
- Cross cutter system
- Motorized unwinding & rewinding units
- Infrared pre-heater unit
- Hoist system for fabric lifting
- A-frame to A-frame working system
- Trolley-to-trolley system
- Trolley-to-A-frame system

Drum Diameter (mm)	Working Width (mm)	Drum Diameter (mm)	Working Width (mm)
Ø 350	1600	Ø 800	1600
	1800		1800
	2000		2000
	2200		2200
	2600		2600
	3200		3200
Ø 500	1600	Ø 1000	1600
	1800		1800
	2000		2000
	2200		2200
	2600		2600
	3200		3200
Ø 600	1600		
	1800		
	2000		
	2200		
	2600		
	3200		
	3400*		
	3600*		

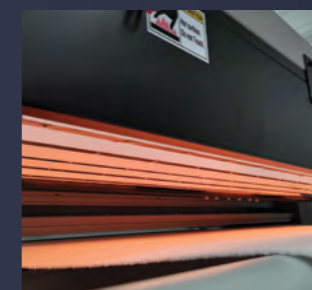
The above dimensions are standard configurations for the Powder Lamination Line. For special working widths and drum diameters, please contact Muratex for customized solutions.



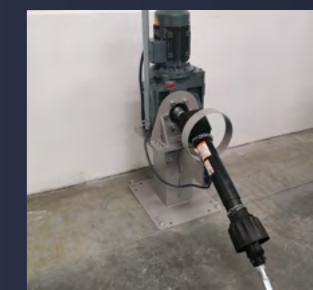
Shear Cutting System



Tensioning System



Infrared Pre-heater System



Motorized Rewinding & Unwinding Unit



Multi
Functional

FIELDS OF APPLICATION
Composite, Technical Textile



PIECE TO ROLL
BONDING MACHINE

BONDING / FILM LAMINATION MACHINE

Standards

- Web and film lamination
- Thermal adjustment
- Reactivation of disperse and pigment ink

Wide Range

This extensive range of calenders has been developed for continuous technical fabric/layers lamination.

Uniform End Result

An exclusive method of heating the Muratex special cylinders allows for close and constant temperature control, thereby guaranteeing excellent bonding/lamination and print quality in terms of uniformity and ink penetration.

Wide Range of operating temperatures

The wide range of temperatures that can be achieved with our custom-built cylinders (ambient temperature up to 225 °C) means that substrates with different properties and requirements can be processed easily.

Management of Substrates During Heat Transfer Printing Process

With our extensive experience, we can advise on the best devices for managing and handling materials to be treated (technical fabric/layers)

Machine Configuration

- Different working speeds are possible with heated cylinders from 215 to 1000 mm in diameter
- Cylinder widths from 1600 up to 3600 mm
- Selection of machines ranging from particularly compact versions to configurations for high-volume production
- Wide range of options available, depending on the chosen application and substrate

Other Functionalities

- Eco-friendly process (no solvents and no water used for process)
- Easy and versatile use
- Quick and easy lamination
- Wide range of use

Wide Range of Applications

Multifunctional machines are also suitable for: Heat-setting fabrics, bonding/laminating blackout films, thermoplastic, and pressure-sensitive films/webs.

TECHNICAL SPECIFICATIONS

Standard Features

- 100% Nomex felt
- Grinded main cylinder
- Aluminium free running rolls
- Pneumatic felt edge control with photocell proximity sensor
- 7" touch screen operator panel with PLC control
- Programmable heating and cooling
- Quick change heavy duty air shaft
- Manual fabric tension control
- Adjustable felt air pressure
- Air shaft to fix the bonding material (both for rewinding and unwinding)
- Air disc brake system for unwinding bonding material roll
- Air disc brake system for unwinding protection paper roll
- Clutch system with airshaft for rewinding protection paper roll

Optional Features

- Silicon coated felt
- Teflon coated drum
- Internal pneumatic pressure roll
- Motorized unwinding units
- A-frame to A-frame working system
- Extraction hood
- Cooling unit
- Fabric tensioning unit
- Slitting system (crush, shear, edge trimming)
- Web guiding system
- Cross cutter system and other special requirements

Drum Diameter (mm)	Working Width (mm)	Drum Diameter (mm)	Working Width (mm)
Ø 215	1600	Ø 600	1600
	1800		1800
	2000		2000
	2200		2200
Ø 350	1600	Ø 800	1600
	1800		1800
	2000		2000
	2200		2200
Ø 500	1600	Ø 1000	1600
	1800		1800
	2000		2000
	2200		2200
	2600		2600
	3200		3200

For special working widths and drum diameters, please contact Muratex for customized solutions.



FIELDS OF APPLICATION
 Technical Textiles, Membranes, Film, Faux
 Leather, Upholstery, Home Textiles etc.

EMBOSSING MACHINE

Standards

Embossing of Substrates

Wide Range

Our extensive range of embossing machines is designed for roll to roll applications such as fabric, membranes, films, foils, papers, synthetic leathers, etc.

Uniform End Result

An exclusive process for heating the custom-made Muratex cylinders enables precise and constant temperature control, guaranteeing excellent embossing quality from start to finish.

Wide Range of operating temperatures

The wide temperature range that can be achieved with our custom-made cylinders (ambient temperature up to 225°C) means that substrates with different properties and requirements can be processed easily and precisely.

Management of Substrates During Heat Transfer Printing Process

Embossing, Cire (Polishing), and Foiling process can be done with the same machine if you equip it with optional extras.

Machine Configuration

- Different working speeds and pressure obtainable with heated cylinders from 215 up to 350 mm diameter
- Cylinder widths from 1600 up to 3200 mm
- Selection of machines ranging from notably compact versions to configurations for high-volume
- Wide range of options, available, depending on the selected application and substrates

Other Functionalities

- Eco-friendly process (no solvents and no water used for process)
- Easy and versatile use
- A quick and easy way to change the design cylinder

Optional Solutions

- Foil Printing
- Cire (Polishing)

TECHNICAL SPECIFICATIONS

Standard Features

- Hard chromium coated design cylinder
- Hard rubber coated bottom cylinder
- Hydraulic squeezing system
- Touch screen operator panel
- Programmable heating and cooling
- Manual fabric tension control
- Adjustable hydraulic pressure
- Surface mounted rewinding

Optional Features

- Mirror cylinder for Cire
- Hard chromium covered cylinder for foil printing
- Rubber coated cylinder for foil printing
- Fan cooling unit
- Chilled cooling rollers
- A-frame to A-frame for continuous production
- Air shaft to fix the foil (both for unwinding and rewinding)
- Air disc brake system for unwinding foil roll
- Slitting system (crush, shear, edge trimming)
- Cross cutter
- Tensioning Unit
- Center rewinding

Drum Diameter (mm)	Working width (mm)	Drum Diameter (mm)	Drum Diameter (mm)
Ø 215	1600	Ø 270	1600
	1800		1800
	2000		2000
	2200		2200
Ø 240	1600	Ø 350	2600
	1800		3200
	2000		1600
	2200		1800
	2600		2000
	3200		2200
			2600
			3200

For special working widths and drum diameters, please contact Muratex for customized solutions.



EMBOSSING CYLINDERS

Muratex also offers a design and manufacturing service for the embossing cylinders with a fast turnaround service and very competitive pricing.

FLAT BED LAMINATOR

Introducing the Future of Lamination: **Muratex Flatbed Laminator** Coming Soon!

Flatbed laminating technology minimizes waste by utilizing dry adhesives, and greatly improves productivity and turnaround.

Muratex's flatbed laminator systems are double belt presses equipped with integrated contact heating and cooling. The materials being laminated are gently heated, ensuring precise bonding. The extended heating zone allows for excellent lamination quality with high bonding strength.

Following the heating process, the materials can be pressed together or calibrated to a specific thickness using pressure rollers. To stabilize the laminated materials, they are cooled before exiting the double belt press.

Thanks to the flat gap between the belts and precise height adjustments, even rigid plates up to 150mm thick can be effectively laminated.



COMING SOON

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