

**CONVERTING
MACHINES**



**Technology
and custom-made
solutions, always.**



Cerutti continues with its strategy of being a global supplier for the packaging material printers and converters.

Cerutti has strengthened its presence in the Converting field by establishing an enhanced structure dedicated to this sector and a specific team of technologists of longstanding experience.

Cerutti Packaging Equipment product line includes now also wax and hot-melt coating machines, solvent and solvent-less laminating equipment - in line and off line - and unsupported alufoil lacquering equipment.

DUPLEX AND TRIPLEX LAMINATING MACHINE - AC94X

Duplex and Triplex high performance machine featuring multi-job coating station capable of using interchangeable trolleys systems.

MAIN JOBS FORESEEN:

Duplex Solvent-based Lamination

- Wet coating weight up to 12 g/m² with a dry coating weight of approximately 4,0 g/m²
- Production speeds up to 400 m/min according to coating weight, dilution and adhesive type

Duplex Solventless Lamination

- Coating weight between 1,3 ÷ 3,5 g/m²
- Production speeds up to 450 m/min

KEY POINTS:

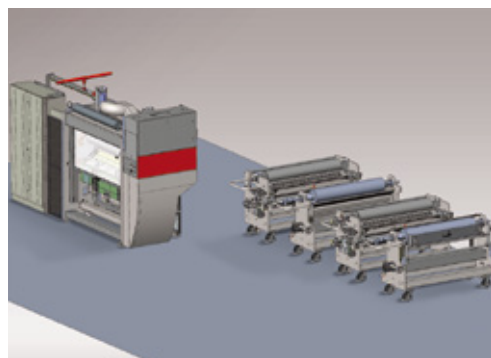
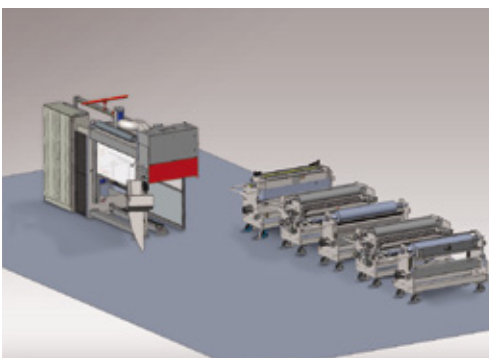
REEL HANDLING

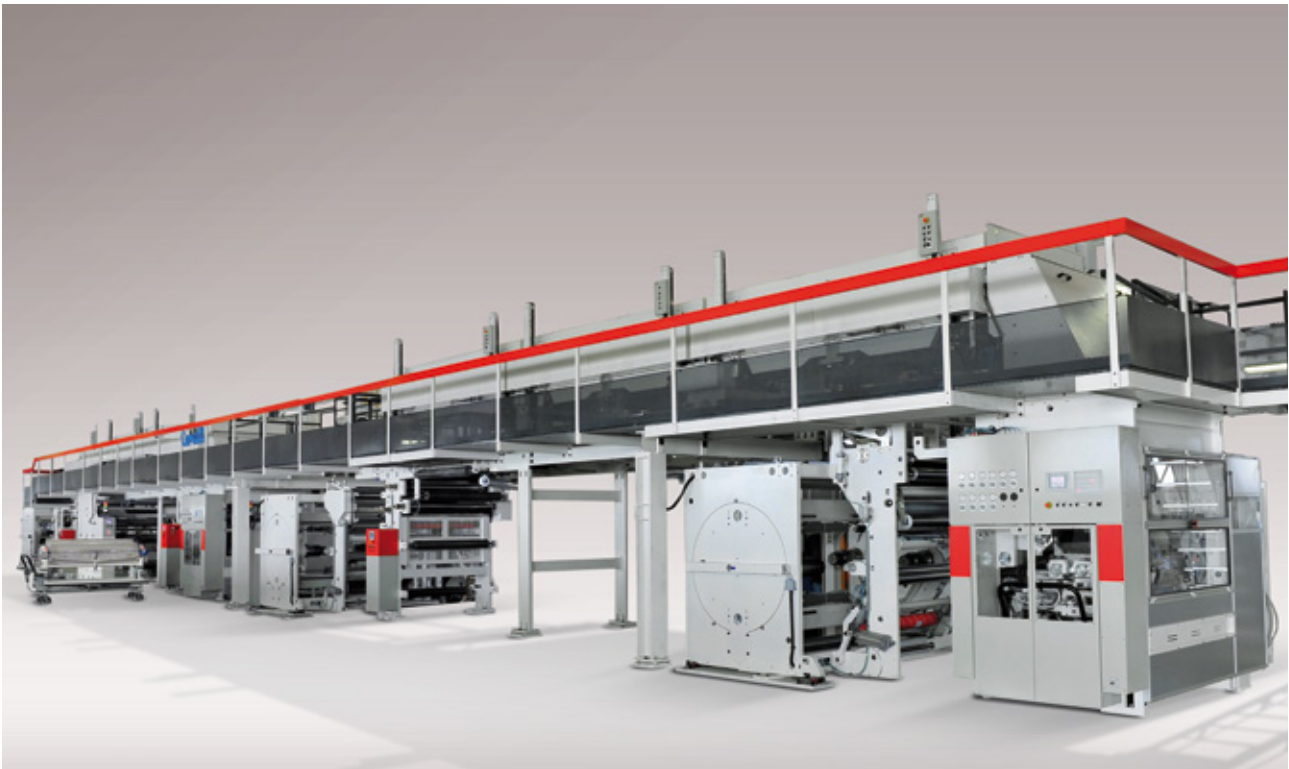
- Single axis unwinders and rewinders or double axis fully automatic unwinders and rewinders, according to customer's requirements
- Shafted or shaft-less reel locking
- The shaft-less system is provided with a pneumatic-mechanical expanding chuck system, to assure operator's safety and to avoid core damage (cardboard, plastic or metal)
- The rewinder can be equipped with an innovative no-glue splicing system

COATING STATION

Multi-trolley coating station; the same frames can accept a wide range of trolleys:

- Rotogravure trolley with 3-position doctor blade
- Rotogravure trolley with chamber doctor blade
- Trolley system for PVDC coating
- Semi-flexo trolley for solvent-based, water based coating and adhesives for wet laminations
- Flexo trolley for solvent coating on alufoil
- Solventless trolley for single component and two component adhesives
- Rotogravure trolley for pattern cold seal application




MATERIALS TO BE PROCESSED (main and secondary materials):

PET	from 10 to 60 μm
OPP, BOPP	from 15 to 100 μm
BOPA	from 15 to 20 μm
CPA	from 20 to 100 μm
LDPE, LLDPE	from 50 to 200 μm
Alufoil	from 6,35 to 20 μm (with motorized pressure roller)
Calendered paper	from 20 to 150 g/m^2
LDPE, LLDPE	from 20 to 200 μm
Cellophane	from 28 to 60 g/m^2
PVC	from 50 to 150 μm

Other materials and thickness can be discussed and agreed.

SOLVENT TECHNOLOGY

High efficiency laminating machine designed to obtain the highest flexibility using a wide range of materials, plastic films, paper, alufoil, etc.

- Very quick trolley change-over due to the special engineering of the coating station
- Front trolley introduction into the coating station: an innovative concept
- Tool-free cylinder locking and user friendly connection to the driving system
- The trolley carries the inking system designed for high production speed
- Driven smoothing-bar on the coating output for water-based and solvent-based product: a frequency converter allows controlled variable results on the coating
- High efficiency horizontal drying system with jet hole technology
- User friendly accessibility to the drying system rollers to allow easy cleaning and maintenance
- Flexibility to the customer requirements

SOLVENTLESS TECHNOLOGY

Our solventless coating station is provided with a triple control system to guarantee a precise coating weight consistency from zero to maximum speed, also while ramping up/down.

- Solventless adhesive can be heated from 25 °C to 90 °C, according to suppliers specification
- The top idle rollers are driven by flat belt
- The coating system consists of a “four roll system” of which three are independently driven
- Sleeve system on transfer roll: the sleeve change operation is carried out directly on the coating system in few minutes
- Gap adjusting mechanism with indicator to obtain an accurate and repeated coating weight
- Fast cleaning of metering roll by pneumatic opening
- Temperature controlled metering and coating rolls to guarantee process accuracy
- Flexibility to customer’s requirements

Triplex line



Combi line



LACQUERING MACHINE - SP94X

Unsupported alufoil, paper and film coating machine for 1, 2, or 3 layers of lacquering, having the versatility to process an extensive range of material thickness.

This high efficiency lacquering machine has the versatility to process various thicknesses of materials. The design feature of our coating station allows the coating trolley change-over with minimised machine down-time.

Our shaftless unwinders and rewinders, thanks to their structure, can assure good tension and precision on both thin materials and aluminium reels with thicknesses up to 100 micron.

Particular attention has been paid to the pasting and cutting assembly through an innovative system which, when these operations are accomplished, moves along linear guides driven by a motor, thus guaranteeing splicing efficiency with high sensitive plastic films and also with unsupported aluminium.

Another advantage is represented by the drying system with a high-efficiency horizontal tunnel. The parallel tunnel opening allows good access to both sides of the machine. In this way the operator can easily clean the rollers and carry out tunnel maintenance.

MATERIAL TO BE PROCESSED:

- Aluminium annealed and hard: 12 ÷ 40 µm
- PET: 10 ÷ 75 µm
- Paper: 40 ÷ 100 g/m²

MAIN FUNCTIONS:

- Single side coating
- Two side coating

COATING:

- Primer
- Heat-seal
- Thermal lacquer

COATING METHODS:

- Gravure with doctor blade
- Gravure with chamber doctor blade
- Semi-Flexo
- Flexo

Triplex lacquering line



REFERENCE PRODUCTS:

- Yogurt lids/cups
- Peel away lids for metal and composite cans
- Molten cheese
- Pharma products
- Chocolate wrapping
- Pet food and aluminium tray containers
- Coffee bags
- Various coating on PET/PVC/Paper

HOT-MELT/WAX COATING AND LAMINATING MACHINE - HM94X

It allows to easily change the product coating weight from 2 to 25 g/m².

Thanks to our innovative technical solutions the HM94X machine is able to process a wide product range in the hot-melt/wax sector. Its main features are:

- Extremely versatile coating system, which allows the operator to change the product coating weight from 2 to 25 g/m² using only the HMI interface
- Surface smoothing system with capability to vary from shiny to opaque effects
- Immersion coating system with capability to modify the coating weight on both sides of the substrate
- New lamination system with the capability to adjust the laminating nip in both height and angle
- Very short job change-over time
- Complete machine operation through advanced Human Machine Interface System

N°	Description	Coating tolerance	Substrate	Coating methods
1	Registered hot-melt soap application	+/- 0.5 mm register tolerance	12 µm PET / 70 g/m ² Paper / Hot-Melt	Gravure
2	One side soap application	+/- 1 g/m ² weight tolerance	12 µm PET / 70 g/m ² Paper / Hot-Melt	Gravure
3	Banderole	+/- 1 g/m ² weight tolerance	90 g/m ² Paper / Hot-Melt	Semiflexo
4	Wax coating two sides for candy, not suitable for twister	+/- 1 g/m ² weight tolerance	Wax / 45 g/m ² Paper / Wax	Semiflexo
5	Wax lamination	+/- 1 g/m ² weight tolerance	25 g/m ² Paper / Wax / 7 ÷ 40 µm Alu	Semiflexo



MATERIAL TO BE PROCESSED:

- Aluminium annealed and hard:
7 ÷ 40 µm
- PET: 10 ÷ 75 µm
- Paper: 40 ÷ 100 g/m²

MAIN FUNCTIONS:

- Single side coating
- Two side coating
- Partial coating (in register)

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