



# Thermo Laminating Machine

# eTL

## Fast Lam

The Enprom Thermolaminating machine has been specially designed for flexible packaging markets, pouches and adding value to the quality finishing of the products.

The **Compact solution** is composed by two stages joined with a web path bridge. The first unit supports two unwinders with its control tension units and corona treatment. The second unit contains the rewinder and laminator unit. The machine is rigidly joined by four union beams. The new development of this solution has been designed with the goal of shorten the web path to a maximum and thus reducing waste.

With the Enprom eTL machine, different types of flexible packaging products can be laminated, the main markets being pet food, wet wipes, chips, snacks, cosmetics, beverages, coffee and tea. The Supply includes a **high performance for short run flexible packaging for immediate time to market.**

## BENEFITS

- Higher Production speed
- Shorter web path implying waste reduction
- Food safe, no chemical reaction, no chemical migration
- Unwinder and rewinder diameter detector to reduce the set up
- Pneumatic chucks in unwinder and rewinder units for easy and fast loading of rolls
- Slitting unit for finish the roll with trim or different rolls
- Safety guard rewinder pressure roll to avoid accidents with the operator
- Electronic control pressure on the reel rewinder for better tension control and quality
- Safety PLC
- Integrated equipment: corona, chillers and heaters
- Regenerative high-performance control equipment
- Intuitive software that is easy to use and control productivity

## TECHNICAL SPECIFICATIONS

| GENERAL MACHINE                   |                               |
|-----------------------------------|-------------------------------|
| MATERIAL WIDTH                    | 300 to 800mm                  |
| MAXIMUM MECHANICAL SPEED          | 150 m/min                     |
| INSTALLED POWER                   | 120 KW                        |
| VOLTAGE                           | 400V 3Ph 50Hz.                |
| UNWINDERS                         |                               |
| TENSION RANGE                     | 20 to 300N                    |
| MAXIMUM REEL DIAMETER             | 800 mm                        |
| INSIDE REEL DIAMETER              | 3"-6"                         |
| MAXIMUM WEIGHT                    | 1.000 Kg                      |
| BRAKE SHAFT                       | Servomotor (Siemens)          |
| WEB GUIDER                        | Automatic with edge (+/-50mm) |
| CORONA TREATMENT + EXHAUST SYSTEM | Yes                           |

| LAMINATION UNIT       |                                      |
|-----------------------|--------------------------------------|
| HOT DRUM LAMINATOR    | Servomotor (Siemens)                 |
| TEMPERATURE RANGE     | 70-170°C                             |
| RUBBER ROLLER         | Automatic press regulation (2 sides) |
| TEMPERATURE RANGE     | 30-70°C                              |
| COOLING UNIT          |                                      |
| TEMPERATURE RANGE     | 15-20°C                              |
| MOTORIZED             | Servomotor (Siemens)                 |
| TEMPERATURE CONTROL   | Chiller (Water fluid)                |
| REWINDER              |                                      |
| TENSION RANGE         | 20 to 350N                           |
| MAXIMUM REEL DIAMETER | 1000 mm                              |
| INSIDE REEL DIAMETER  | 6"                                   |
| MAXIMUM WEIGHT        | 1.000 Kg                             |
| SHAFT CONTROL         | Servomotor (Siemens)                 |
| SLITTING UNIT         | 5 razor blades                       |

