# extrusion coating & laminating lines



► **Triplex** – ASEPTIC PACKAGING



**Precise interaction for the highest quality** SML's Triplex coating and laminating line is designed to manufacture complex composite carton packaging in one simple and cost-effective process. It is based on robust mechanical engineering and precise machine control. The Triplex line can handle thin paper as well as rigid

paperboard at an equally high quality.

## Key Features

- Good accessibility
- High quality components
- Best cost performance ratio
- Easy operation

| Products                  | Aseptic board packaging         |
|---------------------------|---------------------------------|
| Product width             | 700 - 1,350 mm / 850 - 1,650 mm |
| Typical lamination weight | 15 - 25 g/sqm                   |
| Typical inside weight     | 20 - 40 g/sqm                   |
| Typical decor weight      | 12 - 25 g/sqm                   |
| Total product weight      | 150 - 400 g/sqm                 |

| Max. line speed | 400 m/min, higher line speeds on request |
|-----------------|--|
| Roller width    | 1,500 mm                                 |
| Line design     | LID (Laminate/Inside/Decor)              |



## **UNWINDING UNIT #1 (BOARD)**

- Fully automatic turret unwind with shaftless operation, bi-directional unwinding
- Maximum reel diameter 1,600 mm
- Maximum reel 3,500 kg, in-floor reel loading trolley

## CORONA #1

- ► For treating paper from unwinder #1
- Single-sided treatment

## **FLAME TREATMENT**

- ► For treating board from unwinder #1
- Treatment on both sides

## **UNWINDING UNIT #2**

- Fully automatic turret unwinder with shaftless operation for bi-directional winding
- Maximum reel diameter 1,270 mm
- Maximum load 2,000 kg
- Crane system for reel loading

#### CORONA #2

- For treating aluminium foil from unwind #2
- ► Single-sided treatment

## **STATION #1 (LAMINATE)**

- Batch dosing system
- Extruder Ø 135/33 LD
- Hydraulic melt filter and a motorised melt pressure valve
- Automatic Cloeren EBR die with internal and external deckling
- ▶ 3-roll laminator with a chill roll diameter of 1,000 mm

## **CORONA #3**

For the treatment of material upstream of laminator #2

Web pass-over

Single-sided treatment

## **STATION #2 (INSIDE)**

- Batch dosing system
- Extruder Ø 90/33 LD
- Extruder Ø 90/33 LD
- Extruder Ø 75/33 LD
- Hydraulic melt filter and motorised melt pressure valve
- ▶ 3-layer feedblock with a variable geometry
- Automatic Cloeren EBR die with internal and external deckling
- ▶ 3-roll laminator with a chill roll diameter of 1,000 mm

## CORONA #4

- For a treatment of paper upstream of the laminator
- Single-sided treatment

#### Dimensions: H 6 – 8 m L 40 – 50 m W 15 – 18 m

treatment #4

## **STATION #3 (DECOR)**

- Batch dosing system
- Extruder Ø 105/33 LD
- ► Hydraulic melt filter and motorised melt pressure valve
- Automatic Cloeren EBR die with internal and external deckling
- ▶ 3-roll laminator with a chill roll diameter of 1.000 mm

## EDGE TRIMMING

▶ 3-shear cut systems with a driven counterknife for trimming both side edges

## THICKNESS MEASURING SYSTEM

- ▶ 4-frame system with a Kr85 sensor working in the differential measuring mode
- > Optional IR measurement for the detection of single layers

## WINDING UNIT

- Maximum load 4,000 kg
- Roll and shaft handling system





## Welcome to the supreme discipline

The application areas of SML's Triplex line range from classical beverage cartons to pouches.

## Take advantage of our global leadership in extrusion technology.



ANALYSES DEVELOPMENT PRE-TESTED PERFORMANCE DELIVERY ON TIME SERVICE SUPPORT CUSTOMER SATISFACTION

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