Purpose of the line
Packaging for beverages extracted from natural food sources such as fruit juice present a particular challenge in the engineering of systems and processes.

SML’s triplex extrusion lamination lines can be used to manufacture complex composite carton/aluminium packaging in one simple and cost-effective process.

<table>
<thead>
<tr>
<th>Products</th>
<th>Aseptic board packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product width</td>
<td>700 - 1,350mm</td>
</tr>
<tr>
<td>Typical lamination weight</td>
<td>15 - 25 g/sqm</td>
</tr>
<tr>
<td>Typical inside weight</td>
<td>20 - 40 g/sqm</td>
</tr>
<tr>
<td>Typical decor weight</td>
<td>12 - 25 g/sqm</td>
</tr>
<tr>
<td>Total product weight</td>
<td>150 - 400 g/sqm</td>
</tr>
<tr>
<td>Max. line speed</td>
<td>400 m/min</td>
</tr>
<tr>
<td>Roller width</td>
<td>1,500mm</td>
</tr>
<tr>
<td>Line design</td>
<td>LID (Laminate/Inside/Decor)</td>
</tr>
</tbody>
</table>

Unwinding unit #1 (Board)
- Fully automatic turret unwind with shaftless operation, bi-directional unwinding
- Maximum reel diameter 1,600mm
- Maximum load 3,500kg, in-floor reel loading trolley

Corona #1
- For treating paper from unwind #1
- Single-sided treatment

Flame treatment
- For treating board from unwind #1
- Treatment on both sides

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

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

Triplex lines for aseptic packaging
Station #1 (Laminate)
- Batch dosing system
- Extruder 135/33, max. 750 kg/h
- Hydraulic melt filter and motorised melt pressure valve
- Automatic Cloeren EBR V die with internal and external deckling
- 3-roll laminator with chill roll diameter 1,000mm

Corona #3
- For treatment of material upstream of laminator #2
- Single-sided treatment

Station #2 (Inside)
- Batch dosing system
- Extruder 90/33, max. 400 kg/h
- Extruder 90/33, max. 400 kg/h
- Extruder 75/33, max. 250 kg/h
- Hydraulic melt filter and motorised melt pressure valve
- 3-layer feedblock with variable geometry
- Automatic Cloeren EBR V die with internal and external deckling
- 3-roll laminator with chill roll diameter 1,000mm

Corona #4
- For treatment of paper upstream of laminator
- Single-sided treatment

Station #3 (Decor)
- Batch dosing system
- Extruder 105/33, max. 500 kg/h
- Hydraulic melt filter and motorised melt pressure valve
- Automatic Cloeren EBR V die with internal and external deckling
- 3-roll laminator with chill roll diameter 1,000mm

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

Thickness measuring system
- 4-frame system with Kφ85 sensor working in differential measuring mode

Winding unit
- Fully automatic drum winder W1800
- Unidirectional winding
- Maximum winding diameter 1,800mm
- Maximum load 4,000kg
- Handling system for winding shafts and reels
The contents of this brochure are only intended for informational purposes. They are not to be considered as an offer with legal effect. 10.2019/V1