

► cast film lines

SML
EXTRUSION LINES – ENGINEERED TO PERFORM ►

► **HYGIENE FILM**



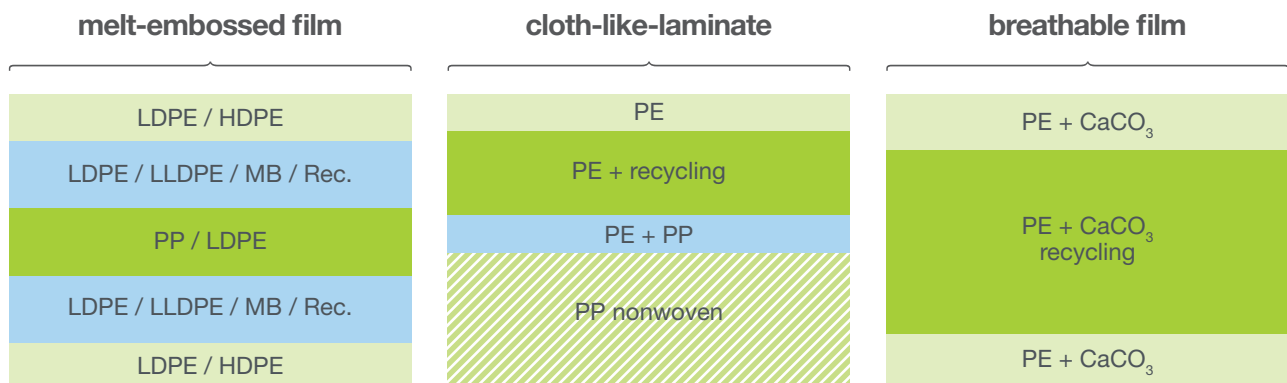
**Extrusion lines –
engineered to perform**

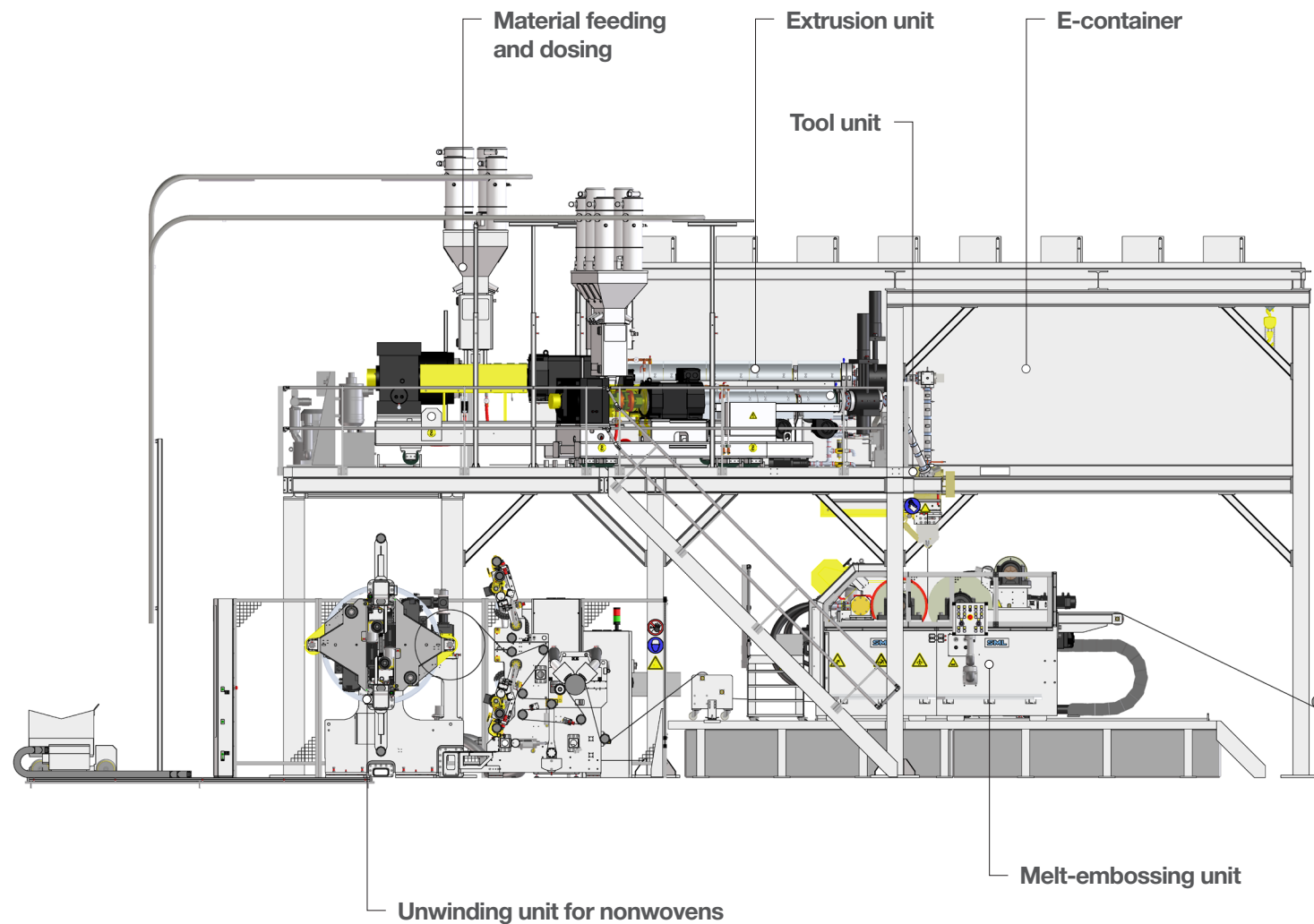
Various hygiene products on a single line

With SML's cast film line it is possible to produce breathable film, melt-embossed film and cloth-like laminate. Due to the modular design, "all-in-one" solutions can be implemented that cover all of these types. In any case, the entire equipment is highly customisable.

► Key Features

- 3 different products on one line
- Soft touch films with the melt-embossing unit
- Sophisticated MDO units
- Winding system for big mother rolls and part bobbins





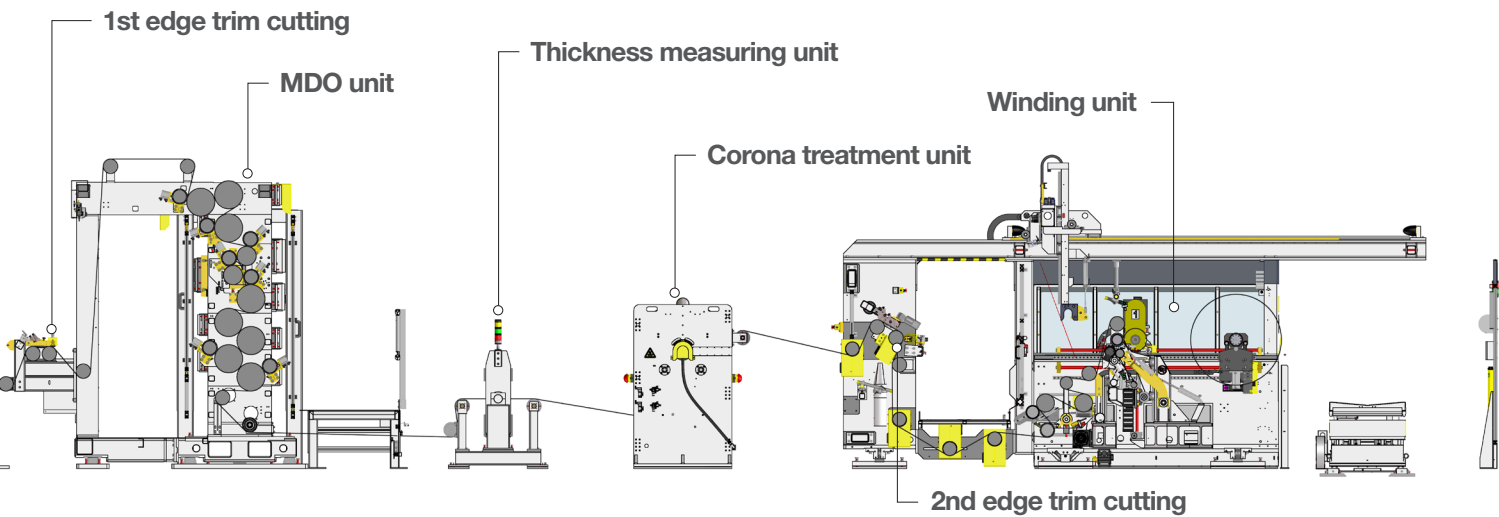
PRODUCT SPECIFICATIONS

- ▶ Film weight 10 – 40 g/m²
- ▶ Number of layers 3 - 5
- ▶ Number of extruders 2 - 3
- ▶ Output range up to 1,500 kg/h
- ▶ The number of extruders and layers depends on the application
- ▶ Maximum mechanical line speed 400 / 500 m/min

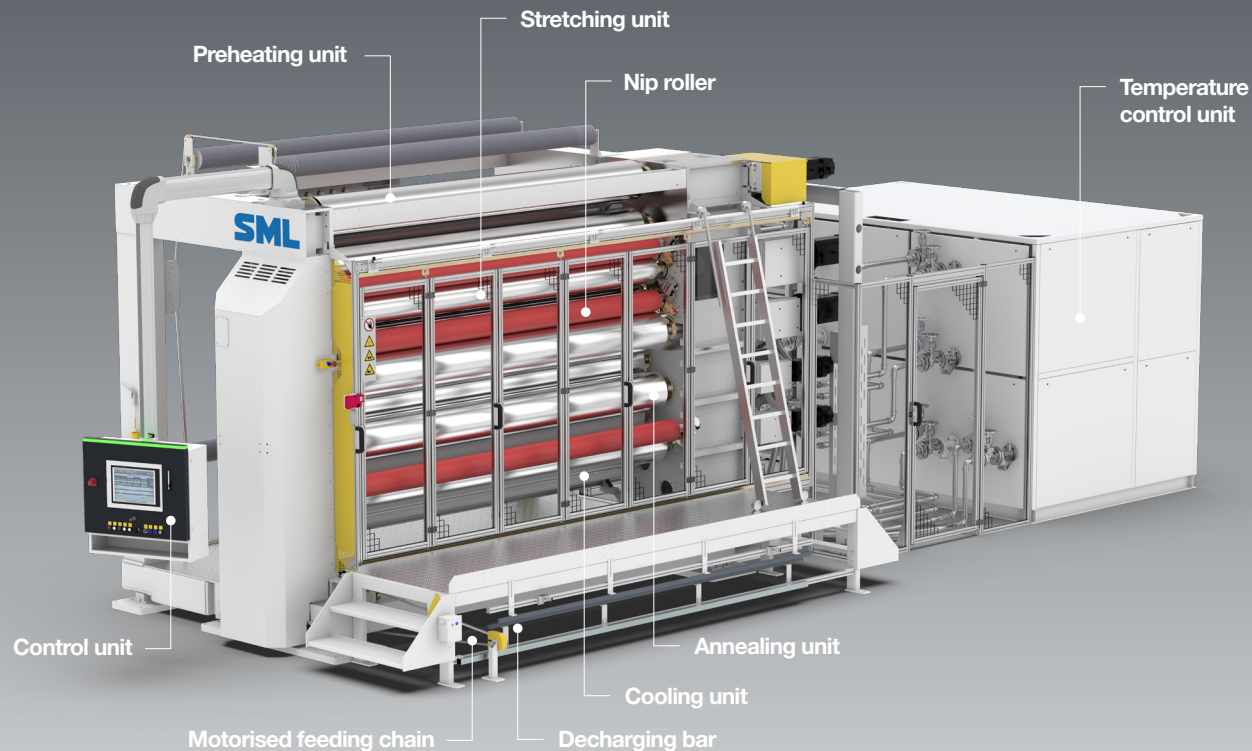
Dimensions:

H 7 – 8 m
L 28 – 33 m
W 10 – 12 m

* The dimension numbers are guiding values.



MACHINE DIRECTION ORIENTATION (MDO) UNIT



EXTRUSION UNIT

- ▶ Material drying unit for breathable film production
- ▶ Gravimetric dosing system
- ▶ Extruder diameter 60 – 150 mm
- ▶ Hydraulic filter
- ▶ Fixed geometry or variable geometry feedblock
- ▶ Automatic single manifold die
- ▶ Die splitting system

MELT-EMBOSSING UNIT

- ▶ Dry-melt-embossing process
- ▶ Pressure roll Ø 700 mm with two surface cooling rolls
- ▶ Embossing roll Ø 800 mm
- ▶ Secondary cooling roll Ø 400 mm
- ▶ Whole unit vertically and horizontally adjustable
- ▶ Thickness measuring system Beta- or X-ray sensor
- ▶ Cut-resistant and high grip guiding rolls

STRETCHING UNIT FOR BREATHABLE FILM

- ▶ Pre-heating station with up to 4 rolls
- ▶ Stretching station with 2 rolls and nip rolls
- ▶ Annealing station with up to 5 rolls
- ▶ Cooling roll
- ▶ Automatic film threading chain in the MDO unit
- ▶ Each roll individually driven
- ▶ Each roll individually temperature controlled
- ▶ Discrete PLC unit for the MDO unit

DOWNSTREAM EQUIPMENT

- ▶ Automatic turret unwinder for nonwovens for the production of cloth-like laminates
- ▶ Edge trim cutting before MDO or corona treatment
- ▶ Corona treatment unit single side or single side reversable or double sided
- ▶ Film inspection system
- ▶ Refeeding of all the edge trims to the inline recycling unit and refeeding of the recycling material to the main extruder

WINDING UNIT

- ▶ Horizontal sliding winder for the production of inline slitted rolls and mother rolls on 3-inch and 6-inch winding shafts
- ▶ Max. roll diameter 1,300 mm at 6-inch winding shafts full width
- ▶ Fully automatic shaft and roll handling system
- ▶ Oscillation of the winder



Effects that you can feel and see

Hygiene backsheet films are functional components of babies' diapers, sanitary napkins, incontinence pads, changing pads and protective clothing. Melt-embossed films are even used for niche products like mulch films or roofing underlay films.



► Take advantage of our global leadership in extrusion technology.

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

SML

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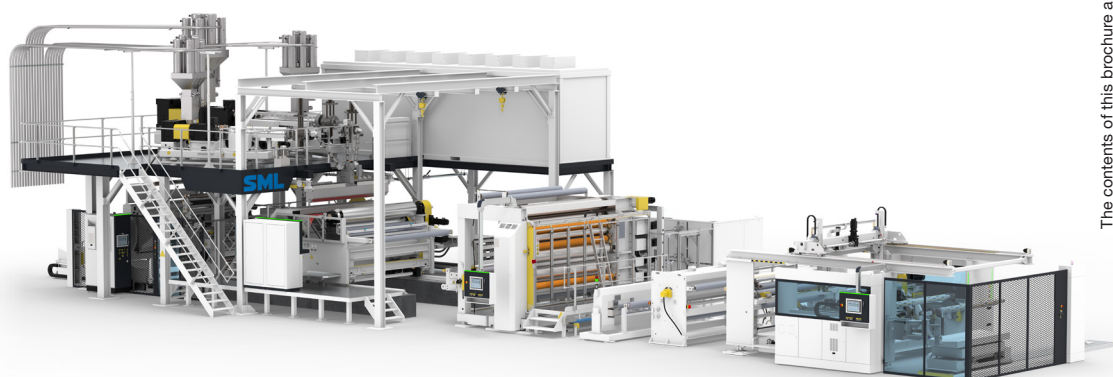
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