

extrusion coating & laminating lines

SML
EXTRUSION LINES – ENGINEERED TO PERFORM ▶

▶ **FlexPack®**
FLEXIBLE PACKAGING



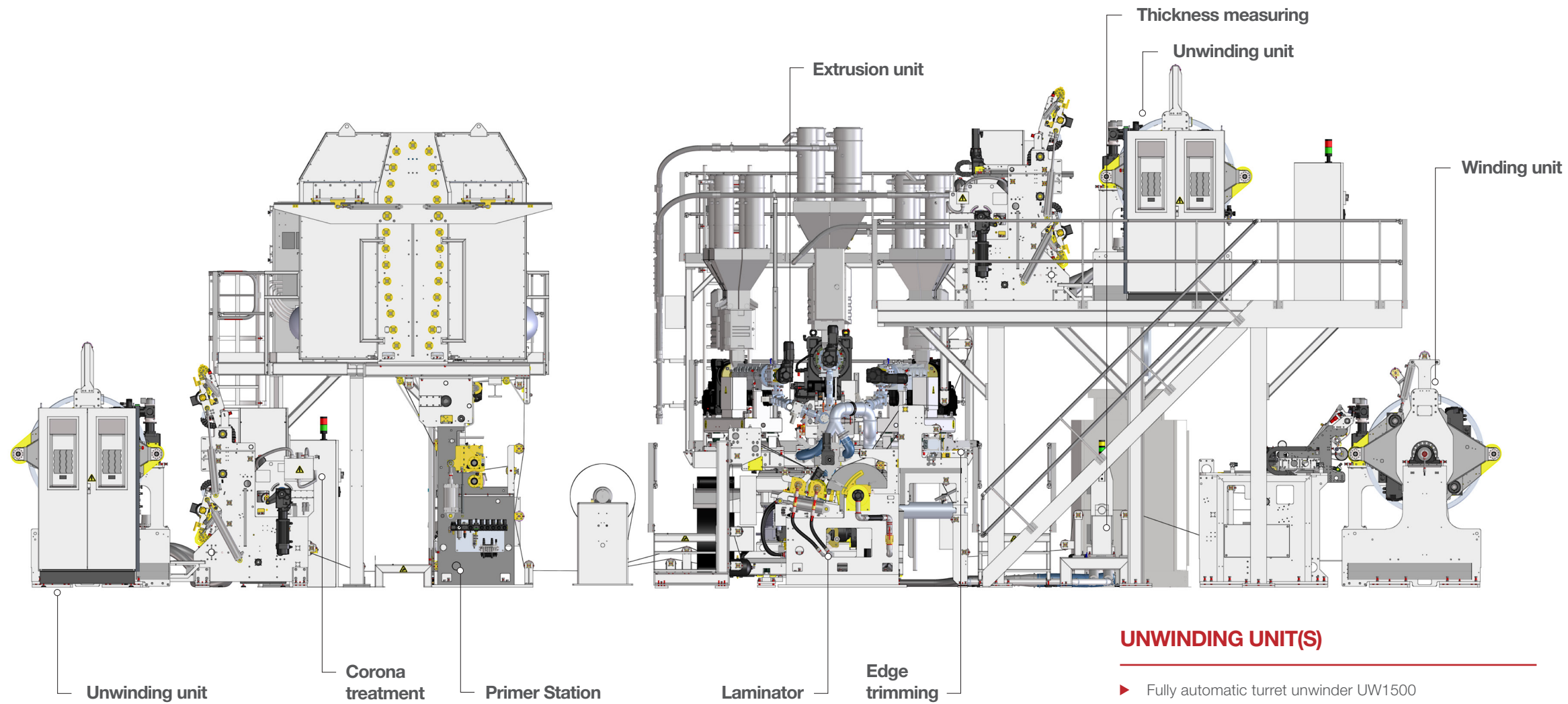
**Extrusion lines –
engineered to perform**



No matter the preferences, SML has the ideal solution

SML's FlexPack® coating and laminating line is used for a wide range of applications – ranging from flexible packaging to textiles, from construction to the automotive industry.





Dimensions:
 H 5.8 – 7 m
 L 15.5 – 24 m
 W 11.5 – 15 m

CORONA TREATMENT(S)

- ▶ Driven ceramic treatment roll with rubberised pressing roll
- ▶ Ceramic electrodes for the treatment of conductive and non-conductive substrates

THICKNESS MEASURING UNIT(S)

- ▶ Frame with a Beta gauge (other sensors optional)
- ▶ APC control

EDGE TRIM HANDLING

- ▶ Shear cut circular knife system with a driven counter knife
- ▶ Edge trim suction system with a blower, a venturi injector and sound absorber

WINDER

- ▶ Fully automatic turret winder W1500
- ▶ Both winding directions possible
- ▶ Max. winding diameter up to 1,270 mm
- ▶ Pull roll unit to separate the web tension from the winding tension
- ▶ Contact and gap winding mode
- ▶ Shafted or shaftless core clamping available

FIELD OF APPLICATIONS

- ▶ Flexible packaging for food industry
- ▶ Coated papers
- ▶ Technical applications (insulation, packing material,...)
- ▶ Medical applications

IN COMBINATION WITH THE PATENTED „DOUBLECOAT“ PROCESS

- ▶ Breathable roofing membrane
- ▶ Products for hygienic applications
- ▶ Breathable textiles
- ▶ Protective wear

UNWINDING UNIT(S)

- ▶ Fully automatic turret unwinder UW1500
- ▶ Both unwinding directions possible
- ▶ Max. substrate diameter up to 1,270 mm
- ▶ Integrated edge guiding system
- ▶ Constant gap device for unwinding of thin foil
- ▶ Shafted or shaftless core clamping available

HOTMELT COATING MODULE (optional)

- ▶ Patented 'DoubleCoat' hotmelt lamination process
- ▶ Hotmelt tank melter
- ▶ Drum melter optional
- ▶ Flat die with motorised deckling system

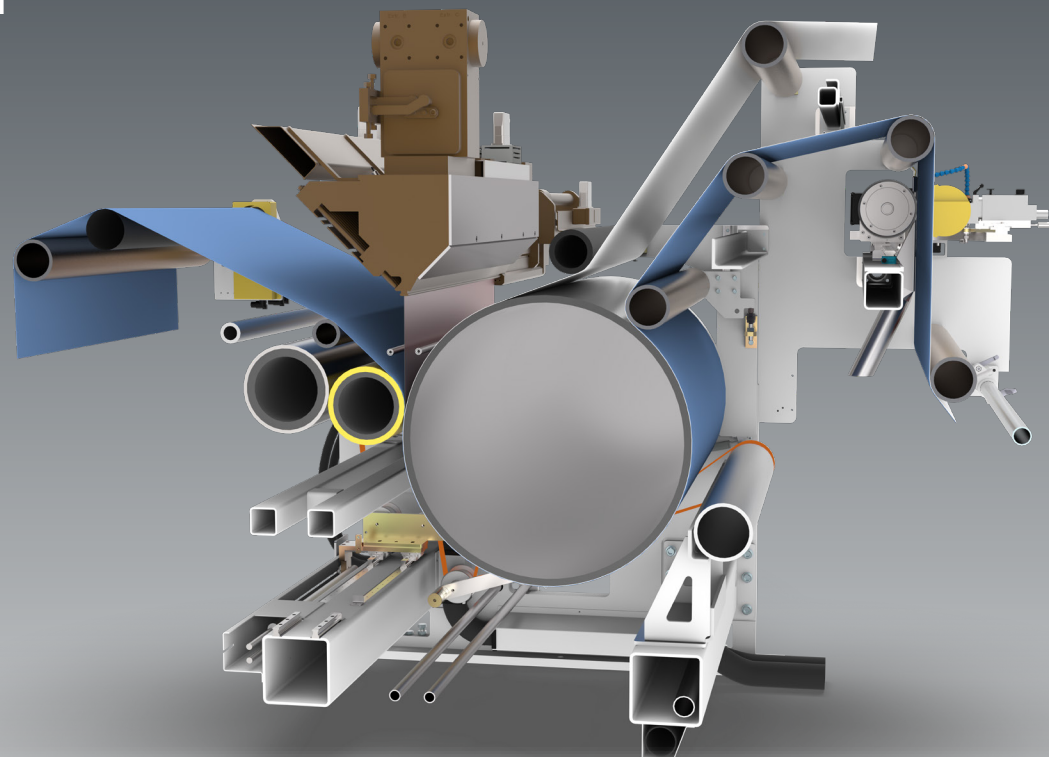
OZONE TREATMENT (optional)

- ▶ Ozone generator
- ▶ Applicators for both side treatment of melt curtain

PRIMER UNIT (optional)

- ▶ Closed chamber doctor blade system for direct gravur coating
- ▶ Waterbased primers
- ▶ High efficiency hot air drying system with vertical dryer
- ▶ Quick change for sleeve type rubber pressing roll

LAMINATOR UNIT



One concept that delivers numerous effects

The ingenious design of SML's FlexPack[®] coating and laminating line facilitates a wide variety of structures. It guarantees cost-effective and user-friendly operation while delivering extraordinary product qualities. The modular set-up even makes the subsequent positioning of a second laminator possible.

Key Features

- Reduced floor space requirements
- Good accessibility
- High quality components
- Best cost performance ratio
- Easy operation

| | |
|---------------------|--|
| Substrates | MOPE film, BOPP film, BOPET film, PA film, paper, aluminium foil, barrier film, metallised film, nonwovens, etc. |
| Extrusion materials | LDPE, PP, EAA, EMA, EVA, EVOH, IONOMERS... |
| Coating weight | 6 – 50 g/sqm (depending on the product) |

| Types | <i>FlexPack</i> [®] 1500 | <i>FlexPack</i> [®] 1800 | <i>FlexPack</i> [®] 2100 | <i>FlexPack</i> [®] 2400 |
|----------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Product width | 700 – 1,350 mm | 800 – 1,650 mm | 900 – 1,950 mm | 1,100 – 2,250 mm |
| Max. mechanical line speed | up to 450 m/min | | | |

EXTRUSION UNIT

- ▶ Extruder carriage with floor-level trackwork and 3-axis motorised movement
- ▶ Pre-designed for maximum of 3 extruders
- ▶ Fully integrated extruder including a gravimetric batch dosing system (maximal of 6 components on each extruder)
- ▶ Melt filter and melt pressure regulation valve
- ▶ Feedblock with a variable geometry up to 5 layers
- ▶ T-die with an internal decking and edge bead reduction system
- ▶ Inline die splitter for easy die cleaning

COATING UNIT

- ▶ Chill roll, Ø 800 mm
- ▶ Rubberised pressing roll, Ø 220 mm
- ▶ Steel supporting roll, Ø 250 mm
- ▶ Separate cooling circuits for the chill roll and pressing unit
- ▶ Quick change equipment for rollers
- ▶ Stripper roll at chill roll outlet
- ▶ Electrically adjustable teflon belt attachment

▶ **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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