extrusion coating & laminating lines

SML
EXTRUSION LINES – ENGINEERED TO PERFORM

FlexPack®
FLEXIBLE PACKAGING

Extrusion lines –
engineered to perform

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	BOPP film, BOPET film, PA film, paper, aluminium foil, metallised film, barrier film, nonwovens, etc.
Extrusion materials	LDPE, PP, EAA, EMA, EVA, IONOMERS...
Coating weight	8 – 50 g/sqm (depending on the product)

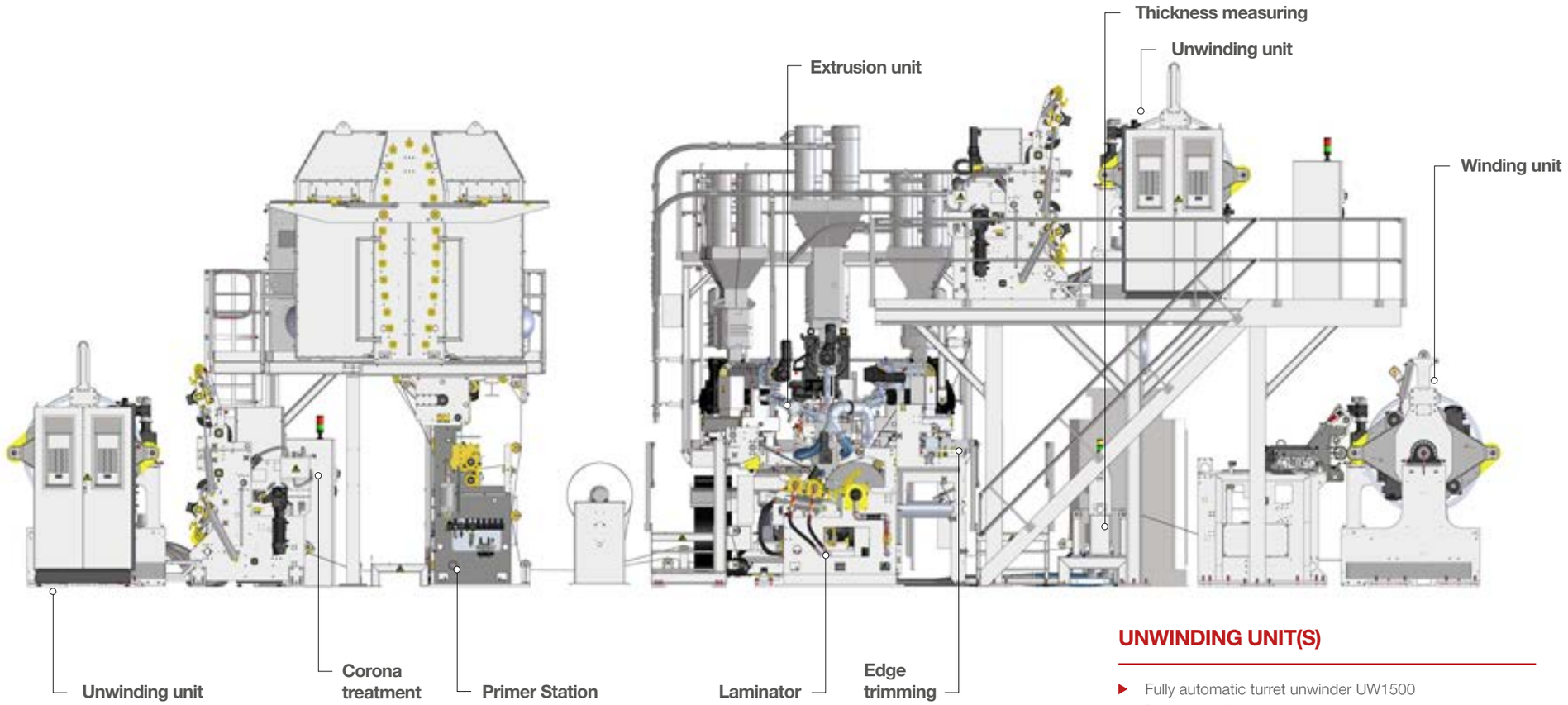
Types	*FlexPack*® 1500	*FlexPack*® 1800
Product width	700 – 1,350 mm	800 – 1,650 mm
Max. mech. line speed	350 m/min	350 m/min
Max. mech. line speed, shaftless	450 m/min	450 m/min

EXTRUSION UNIT

- Extruder carriage with floor-level trackwork and 3-axis motorised movement
- Fully integrated extruder including a gravimetric batch dosing system (maximal of 6 components on each extruder)
- Extruder A: Ø 90/33 L/D
- Extruder B: Ø 60/33 L/D
- Third extruder optional
- Melt filter and melt pressure regulation valve
- 3-layer feedblock with a variable geometry (optional 5 layers)
- T-die with an internal deckling and edge bead reduction system
- Inline die splitter for easy die cleaning

COATING UNIT

- Chill roll, Ø 800 mm
- Rubberised pressing roll, Ø 200 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



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 optional

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

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

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

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)

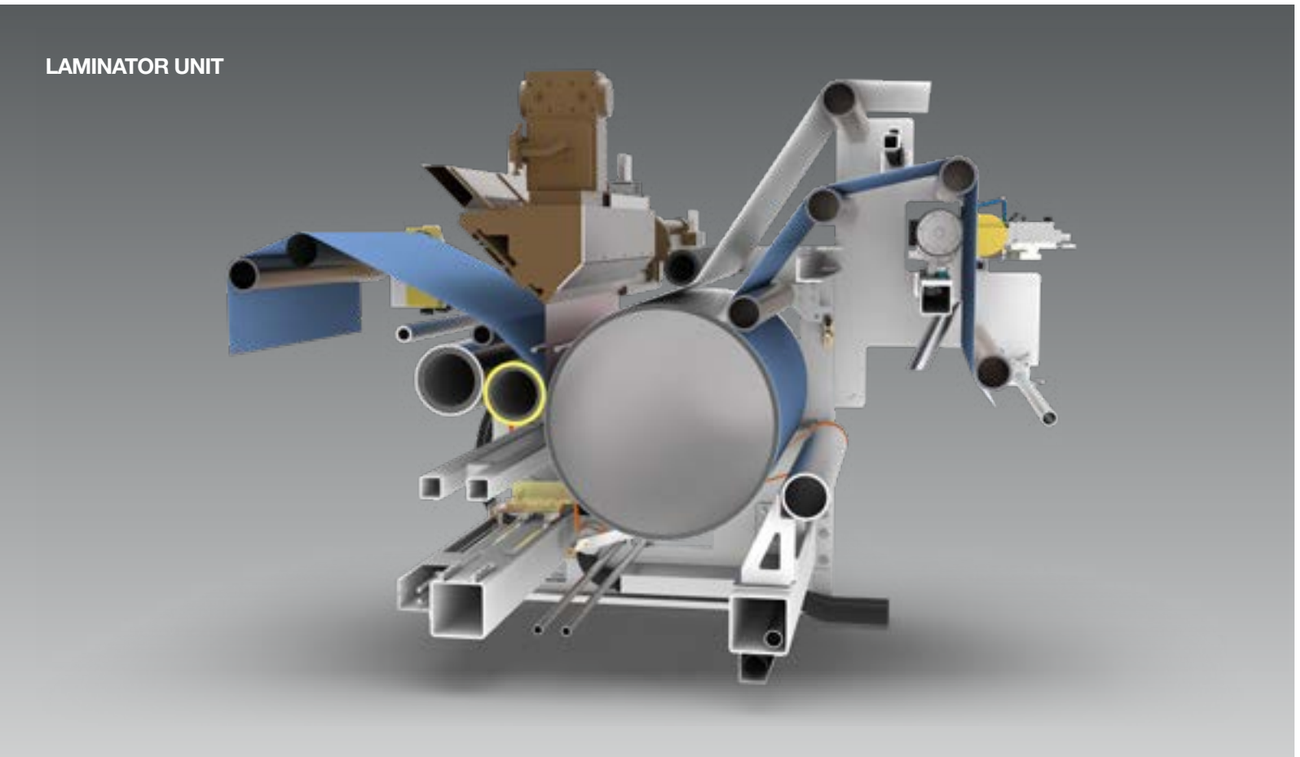
- Closed chamber doctor blade system for direct gravur coating
- Waterbased primers
- High efficiency hot air drying system with vertical dryer 2 x 2.5 m
- Quick change for sleeve type rubber pressing roll

FIELD OF APPLICATIONS

- Flexible packaging
- Coated papers
- Technical applications (insulation, packing material,...)

IN COMBINATION WITH THE PATENTED „DOUBLECOAT“ PROCESS

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



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.

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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SML - Head Office
Gewerbepark Ost 32
4846 Redlham
Austria
Phone: +43 7673 90999
E-mail: sml@sml.at
www.sml.at

SML - Machinery Far East Sdn Bhd
(1029958-P)
1201 Block B, Menara Amcorp
No.18 Jalan Persiaran Barat
46050 Petaling Jaya
Selangor Darul Ehsan,
Selangor, Malaysia
Phone: +60 3 7955 9098
E-mail: yen@sml.at

SML - Beijing Office
Unit 1410, Landmark Tower
No. 8 North Dongsanhuan Road
Chaoyang District
100004 Beijing, P.R. of China
Phone: +86 10 6590 0946
E-mail: sml@sml.bj.cn

SML - North America Service, Inc.
Suite 204
85 Eastern Avenue
Gloucester MA 01930
USA
Phone: +1 978 281 0560
Mobile: +1 978 394 1553
E-mail: jom@sml.at

www.sml.at

DREIREINS.co.at
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