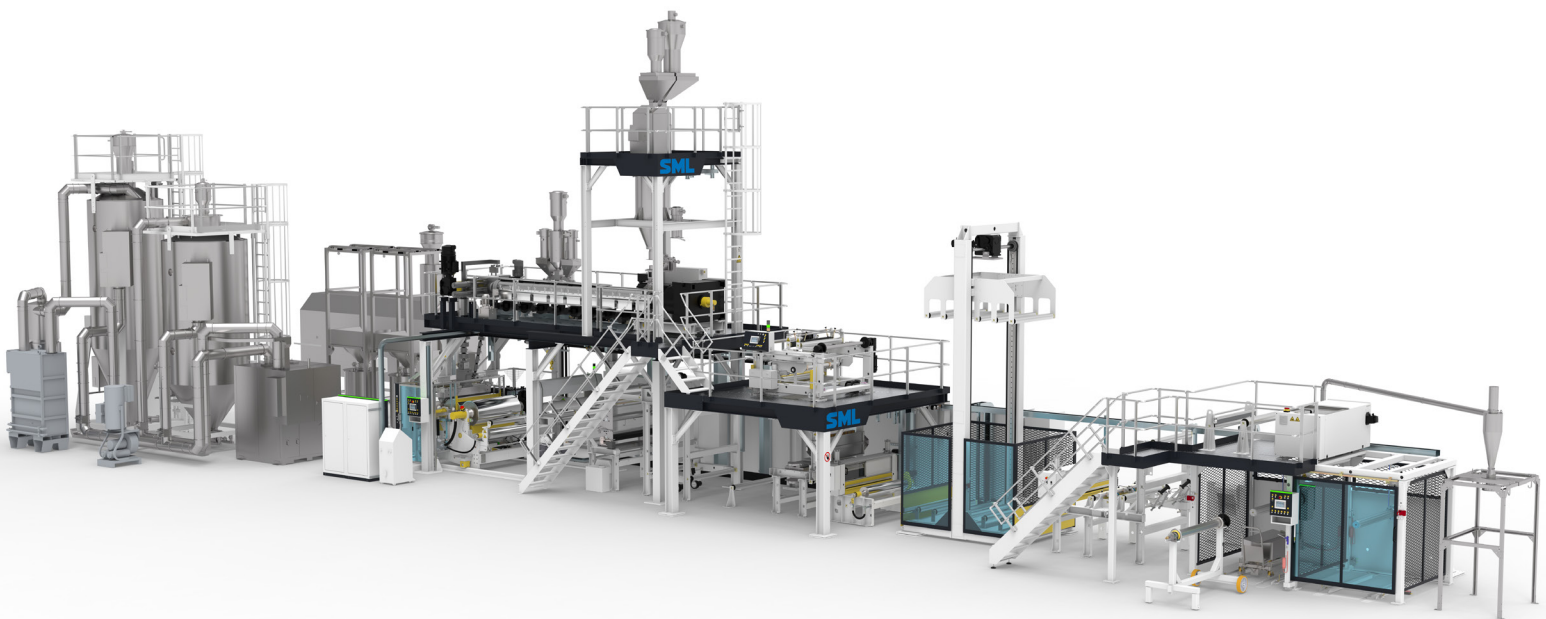


▶ sheet
lines

SML
EXTRUSION LINES – ENGINEERED TO PERFORM ▶

▶ **FLEXIPET –**
TWIN SCREW EXTRUSION



Extrusion lines –
engineered to perform

One line, many options

SML's FlexiPET represents an exceptional twin-screw extruder concept that is easily adaptable to various polymers. This line is able to process virgin and regrind PET, PP and PS – material switches can be managed very quickly. FlexiPET is also versatile regarding the choice of winding systems.

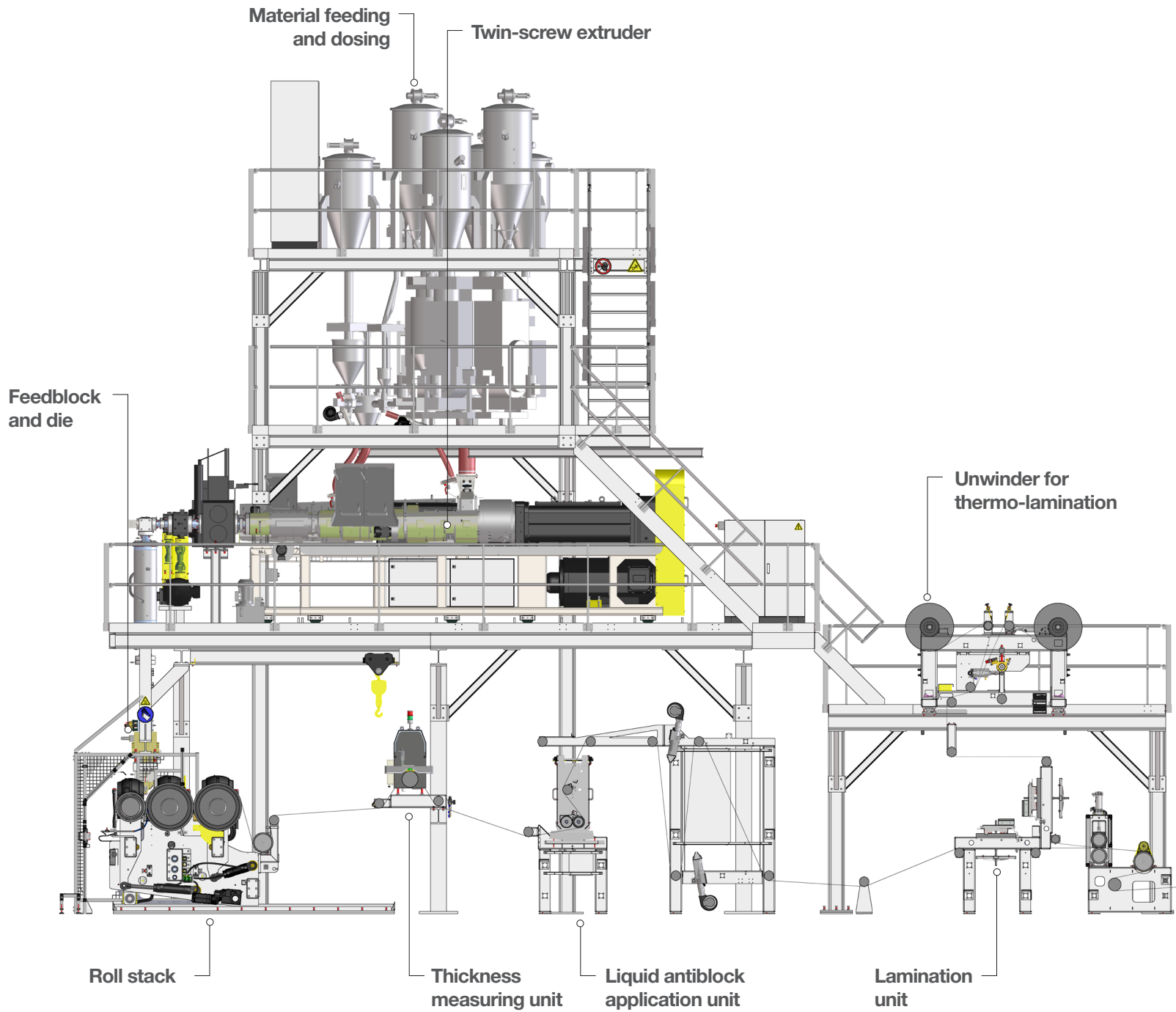
► **Key Features**

- Designed for the highest flexibility to process different kinds of polymers and applications
- Recommended for the use of PETG and its post industrial flake stream
- Optimised to use dusty material streams
- FlexiPET lines are highly flexible in terms of useable materials and combinations
- The lowest residence time inside the extrusion unit due to conical twin screw extruders
- Reduced energy consumption
- Minimised applied shear stress

Typical thermoform application	+
PET	+
PP	+
PS	+
Optical film	~
PET / PE (recycled in reduced amounts)	++
PET / PE / EVOH (modifications required)	++
GAG sheet	++
Customised sheet projects	++

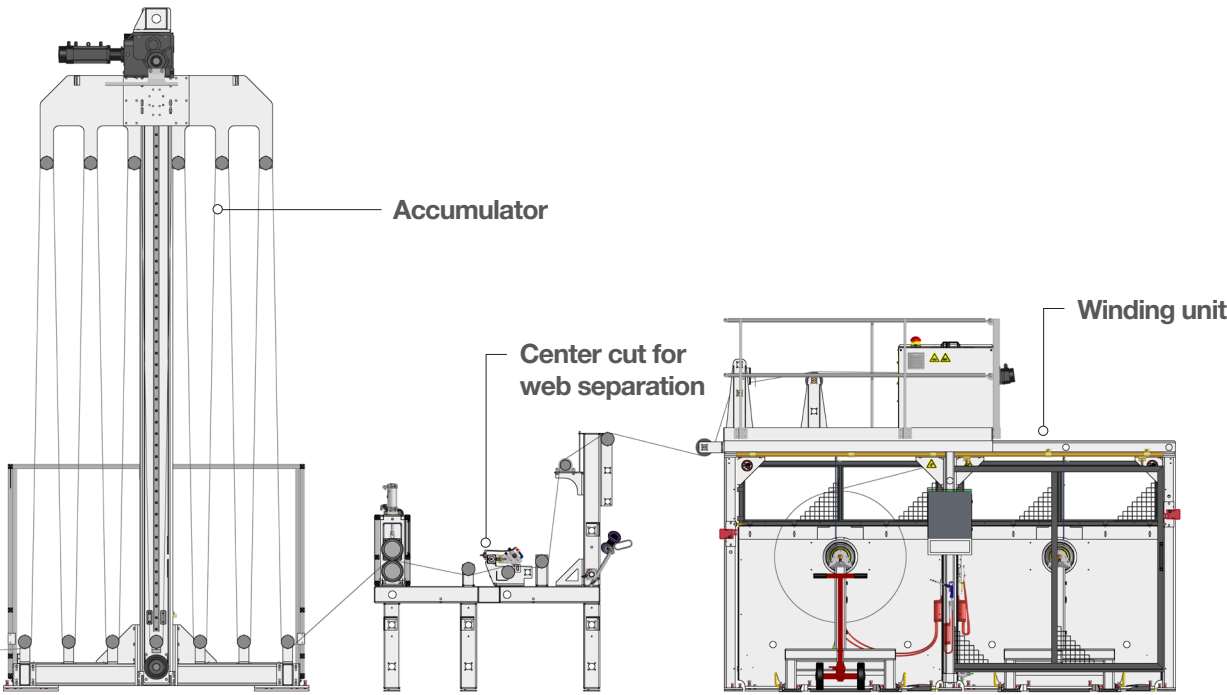
BASIC DESIGN INCLUDES

- Material dosing and conveying system for twin screw extruders (2 main + 2 side components)
- Complete extrusion unit with a conical twin screw, backflush filter, melt pump and static conical mixer
- FlexiPET 4 and below: manual die / FlexiPET 5 and up: automatic die
- Roll stack with SPG roll technology, temperature control unit, hydraulics and safety devices
- Thickness gauge
- Edge trim unit with blade knives and an edge trim mill
- Winder W501
- Automatic control system
- SML BitWise System



OPTIONS

- ▶ Inline liquid antiblock application device
 - ▶ One shaft winding unit with two webs up to a certain width
 - ▶ Inline PE lamination
 - ▶ Upgrade of take-off units for optically sensitive sheets
 - ▶ Inline sheet inspection system
 - ▶ Inline edge trim recycling system (from the mill directly to bin and further to the extruder)
 - ▶ Simplified predrying of flakes in front of the main extruder
 - ▶ Predrying of virgin for coextruder
 - ▶ Optional: single screw instead of twin screw coextruder
- Extruder Combination: FlexiPET 1+2 = 60/28
FlexiPET 3-8 = 90/33



CONFIGURATION

	FlexiPET 1	FlexiPET 2	FlexiPET 3	FlexiET 4	FlexiPET 5	FlexiPET 6	FlexiPET 7	FlexiPET 8
Line width (mm)	1,050	1,050	1,200	1,400	1,650	1,800	2,000	2,200
Max. possible net width (mm)	800	800	950	1,150	1,380	1,530	1,730	1,930
150 µm / app. net output kg/h	590	590	700	850	1,020	1,130	1,280	1,420
500 µm / app. net output kg/h	590	930	940	1,350	1,390	1,410	1,420	1,430
1,000 µm / app. net output kg/h	570	910	930	1,130	1,400	1,410	1,420	1,430
1,200 µm / app. net out put kg/h	590	800	860	1,040	1,380	1,390	1,410	1,430
1,800 µm / app. net output kg/h	580	650	680	830	1,130	1,040	1,130	1,260

GRANULES



virgin material



filmflakes

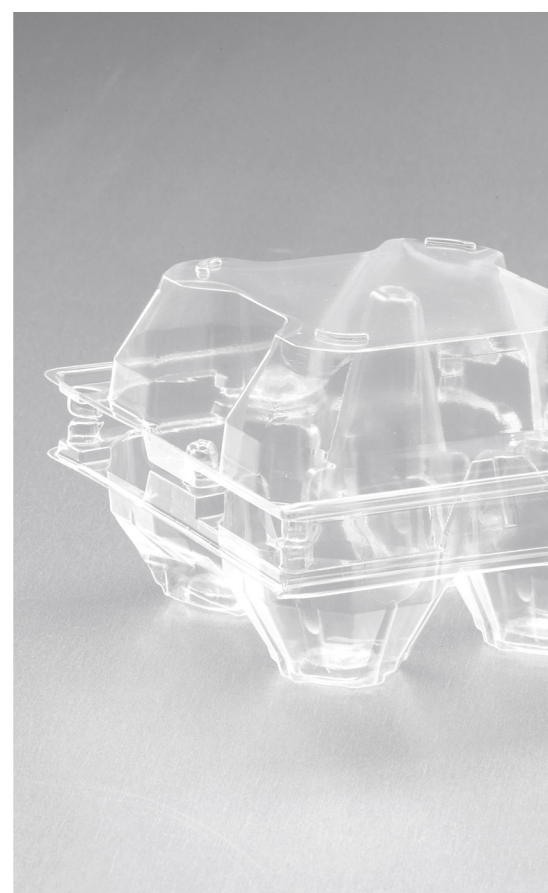


bottleflakes



The bright variety of SML's technology

PET sheet products are primarily used for food and consumer goods like trays, cups, blisters and lids. In addition, pharmaceutical and medical products have become important areas of application.



► 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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