

► sheet
lines

SML
EXTRUSION LINES – ENGINEERED TO PERFORM ►

► **RECYPET –**
RECYCLING EXTRUSION



Extrusion lines –
engineered to perform

Benefit from the best of two worlds

In combination with the compact VACUREMA® system, RecyPET from SML is the ideal solution for processing PET bottle flakes and regrind. This line is well suited to large amounts of recycled material with a consistent quality.

The advantages: No discoloration, low energy consumption and no pre-drying required.

Key Features

- Designed for the highest amount of post consumer or post industrial flake material
- Decontamination / dehumidification process in minimised time
- Minimised iV drop in relation to the input material
- Extrusion and material treatment system VACUREMA from the world market leader EREMA
- Optimised for high outputs of monolayer sheets

GRANULES



virgin material



film flakes



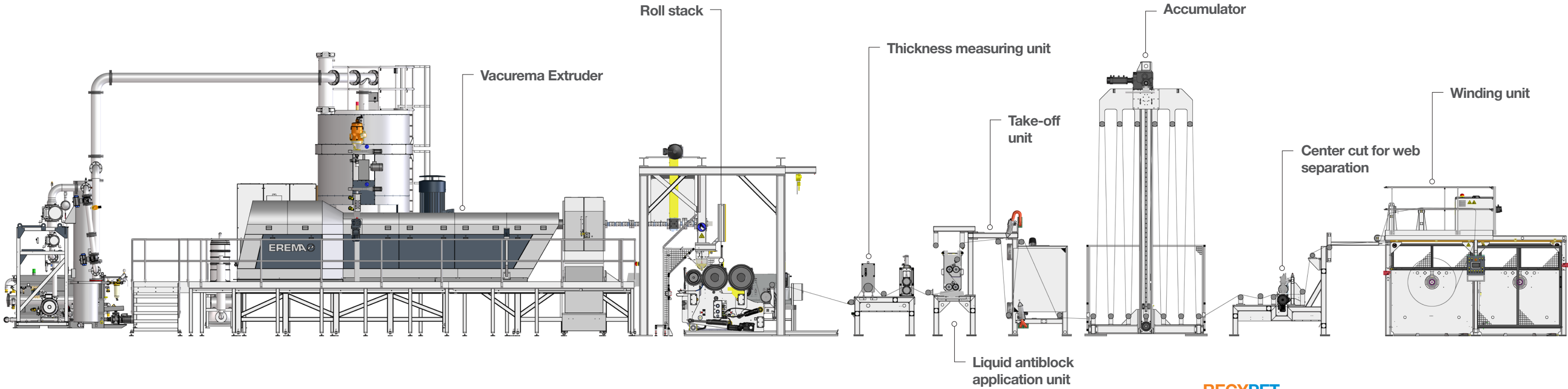
bottle flakes

BASIC DESIGN INCLUDES

- ▶ Complete extrusion unit with a reactor, extruder, backflush filter, melt pump and static mixer
- ▶ RecyPET 4 and below: a manual die / RecyPET 5 and up: an automatic die
- ▶ Roll stack with SPG roll technology, a temperature control unit, hydraulics and safety devices
- ▶ Thickness gauge
- ▶ Edge trim unit with blade cut and an edge trim mill
- ▶ Winder W501
- ▶ Automatic control system

OPTIONS

- ▶ Upgrade for coextruded A/B/A sheet
- ▶ 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 premixing)
- ▶ Upgradeable for EFSA and FDA conform sheet



CONFIGURATION

| Calander width [mm] | net film width min. -max. [mm] | OUTPUT FOR PET FILM | | | | | |
|------------------------|-----------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--|--|
| | | 150 µm at full width ¹ | 300 µm at full width ¹ | 500 µm at full width ¹ | 800 µm at full width ¹ | 1,200 µm at full width ¹ | 1,800 µm at full width ¹ |
| 1,050 | 600 - 800 | 590 | 1,180 | 1,210 | 1,110 | 910 | 760 |
| 1,200 | 700 - 950 | 700 | 1,400 | 1,440 | 1,320 | 1,080 | 900 |
| 1,400 | 830 - 1,150 | 850 | 1,700 | 1,740 | 1,600 | 1,300 | 1,090 |
| 1,650 | 1,000 - 1,400 | 1,030 | 2,070 | 2,120 | 1,950 | 1,590 | 1,330 |
| 1,800 | 1,100 - 1,550 | 1,230 | 2,290 | 2,350 | 2,160 | 1,760 | 1,480 |
| 2,000 | 1,230 - 1,750 | 1,290 | 2,580 | 2,650 | 2,440 | 1,990 | 1,670 |
| 2,200 | 1,370 - 1,950 | 1,440 | 2,880 | 2,960 | 2,700 | 2,200 | 1,860 |

1) Values are given in net kg/h.
Configuration up to 3,000 mm on request.

Recommended for:

| | |
|--|----|
| Typical thermoforming application | ++ |
| PET | ++ |
| PP | ~ |
| PS | ~ |
| Optical film | — |
| PET / PE (recycled in reduced amount) | -- |
| PET / PE / EVOH (modifications required) | -- |
| GAG sheet | -- |

RECYPET

| Extruder | MAX. EXTRUDER OUTPUT | |
|--------------------|---------------------------|---------|
| | PET [kg/h] max. flakes | pellets |
| ES60 ²⁾ | x | 200 |
| ES75 ²⁾ | x | 300 |
| ES90 ²⁾ | x | 450 |
| VAC1512 | 600 | |
| VAC1714 | 900 | |
| VAC1716 | 1,150 | |
| VAC2018 | 1,450 | |
| VAC2318 | 1,900 | |
| VAC2321 | 2,050 | |
| VAC2621 | 2,750 | |
| VAC2625 | 3,500 | |

2) as coextruder



The bright variety of SML's technology

PET sheet products are primarily used for food and consumer goods like trays, cups 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

EXTRUSION LINES – ENGINEERED TO PERFORM ►

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 - Moscow Office

Ogorodny proezd, 5
Building 3, office 408
127254 Moscow
Russia
Phone: +7 495 618 8007
E-mail: kna@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