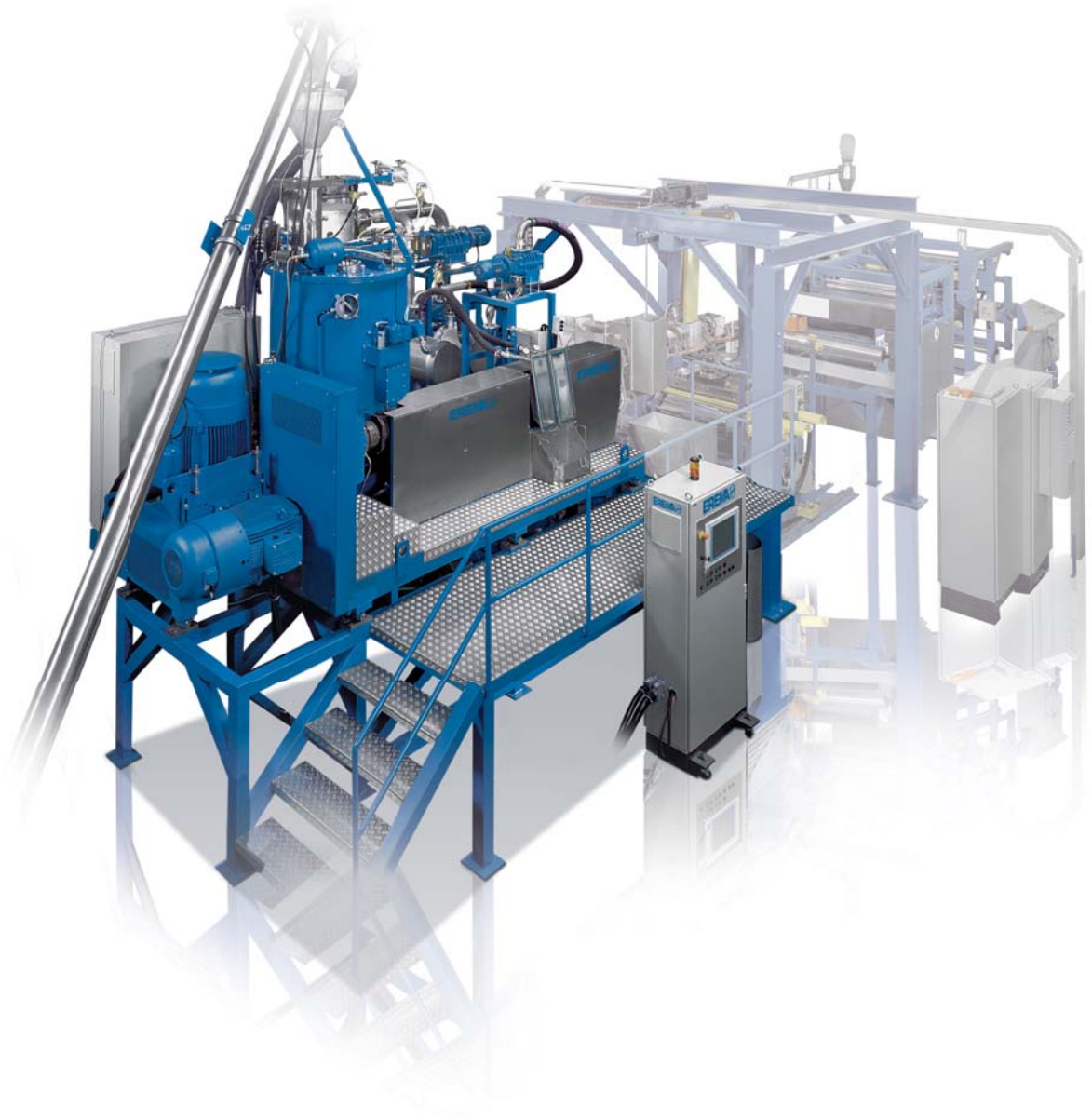


VACUREMA® INLINE SHEET

Production of thermoforming sheet



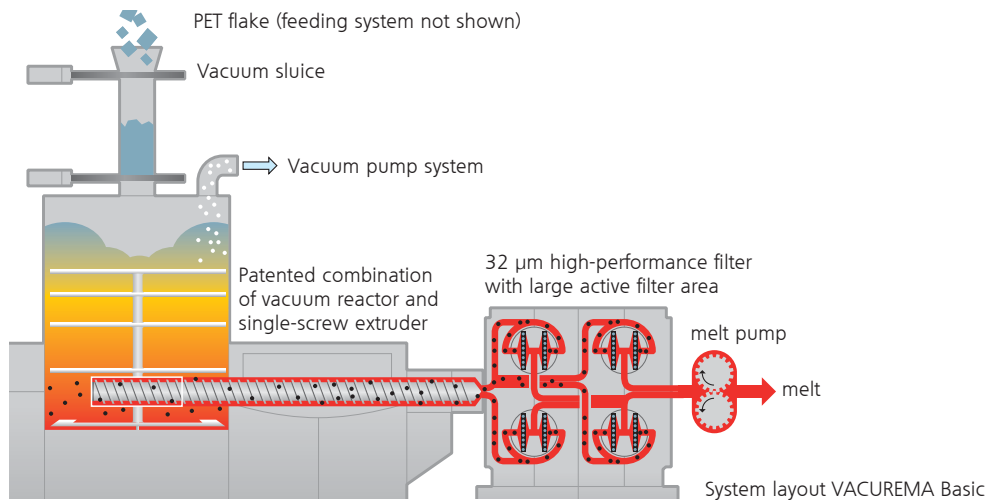
We know how.

From PET WASTE directly to PET SHEET

PET bottle flake has become a commodity on the world market. Besides bottle to bottle recycling the production of PET thermoforming sheet is a very cost-effective and profitable business opportunity for the reuse of this valuable secondary raw material if you have the right equipment available. For a complete Inline sheet production line EREMA combines a VACUREMA Basic extrusion system and a downstream thermoforming sheet line.

The good thing: the VACUREMA extruder can be combined with equipment of various downstream manufacturers.

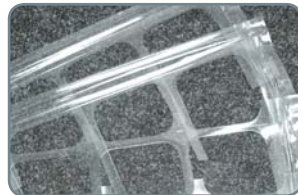
The upstream process – VACUREMA Basic



Washed PET flakes



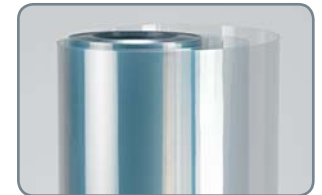
PET skeleton waste



Virgin PET pellets



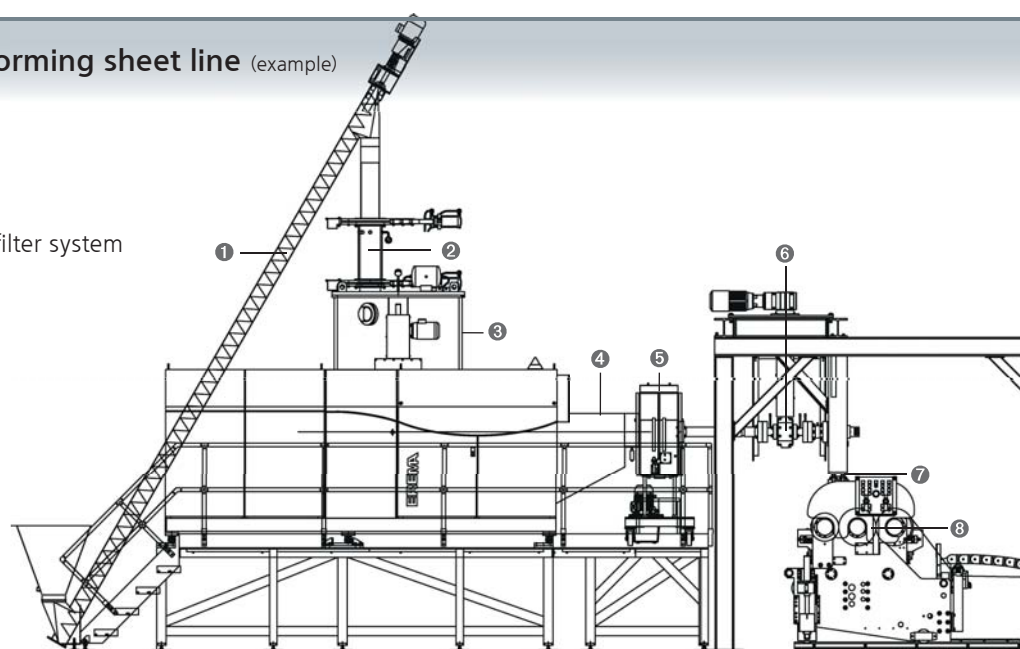
Thermoforming sheet – inhouse waste



Highly flexible in terms of input material. Examples of materials that can be processed.

VACUREMA Basic and thermoforming sheet line (example)

- ① Conveyor screw
- ② Vacuum sluice
- ③ Vacuum reactor
- ④ Short extruder
- ⑤ Fully automatic self-cleaning EREMA filter system
- ⑥ Melt pump
- ⑦ Flat sheet die
- ⑧ Roll polishing stack
- ⑨ Antiblock system
- ⑩ Winder unit



The key advantages of VACUREMA Inline Sheet-Systems

- › Deals adequately with high moisture up to 1.5% and moisture variations
- › Stable IV due to consistently dried material and almost no or minimal IV loss – 0% to 4%
- › Highly flexible in terms of input material bulk density and shape as well as mixtures of material – 250 to 850 kg/m³
- › Cleanness of thermoforming sheet produced FDA approved (suitable for direct food contact) and within other regulations
- › Low specific energy consumption – 0.25 kWh/kg

NEW ecoSAVE® reduces not only energy consumption by up to 10% but also production costs and CO₂ emissions as a result

- › Large-area fine melt filtration
- › Compact, space-saving design
- › Sturdy single-screw extrusion system – insensitive to solid contamination, providing high melt pressure for a fine mesh filtration, enables filtration before sensitive melt pump

Approved for direct food contact by/in:

Argentina
Austria
Brasil
Canada
Paraguay

Switzerland
Uruguay
US FDA
etc.*

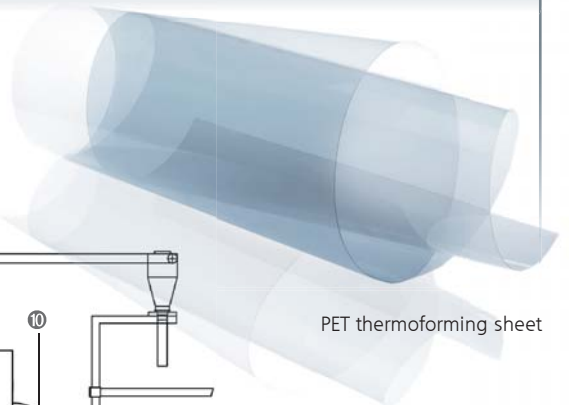
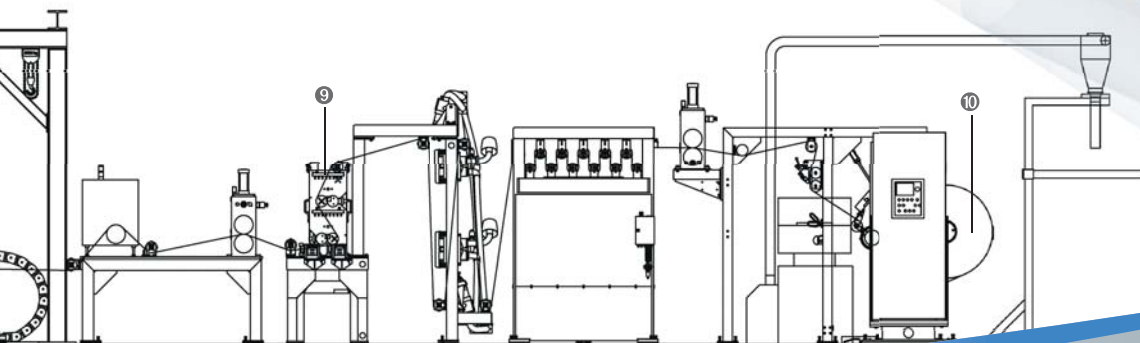
Complies with the following decontamination requirements/migration levels:
ANVISA* (Mercosur)
efsa*
European ILSI docs.
German BGBI

*Other countries to follow depending on applications by VACUREMA BASIC users

*Subject to application by VACUREMA users



Approved for direct food contact by FDA



PET thermoforming sheet

The downstream process – thermoforming sheet line

- › Melt pump to secure constant pressure in front of the flat sheet die
- › Thickness range from low as 150 µm up to approx. 1.8 mm, according to downstream equipment
- › Antiblock system for film surface treatment
- › Edge trims are granulated and fed back to the VACUREMA extruder

Plant sizes and output capacities on request.

Choose EREMA

- › Proven and reliable technology from the global market leader
- › Constant innovations secure the lead
- › First class worldwide customer service guarantees lasting reliability and fast support
- › Outstanding end product quality
- › Customised individual solutions



Headquarters & Production Facilities

EREMA Engineering Recycling
Maschinen und Anlagen Ges.m.b.H.
Unterfeldstraße 3
A-4052 Ansfelden, Austria
Phone +43 732 3190-0
Fax +43 732 3190-23
erema@erema.at, www.erema.at

Subsidiaries

EREMA NORTH AMERICA INC.
23 Old Right Road - Unit#2
Ipswich, MA 01938 / USA
Phone +1 978 356-3771
Fax +1 978 356-9003
erema@erema.net
www.erema.net

EREMA JAPAN Co., Ltd.
8F Tobu Yokohama Second Building
Kanagawa Prefecture
2-15-1, Kita Saiwai, Nishi-Ku
220-0004 Yokohama, JAPAN
Phone +81 45 317-2801
Fax +81 45 317-2803
erema@erema-japan.com
www.erema.at

EREMA Shanghai Office
Room 1009, Tomson Financial Building
710 Dong Fang Road, Pudong
Shanghai China (200122)
Phone +86 21 6876-6201, 6876-6204
Fax +86 21 6876-6203
erema@erema.com.cn
www.erema.at

For worldwide representatives see www.erema.at

Subject to technical modifications. Printed 10/2010. E
© EREMA Engineering Recycling Maschinen und Anlagen Ges.m.b.H.

