



Tailor-made extrusion concepts  
for recycling and compounding  
**EdelweissCompounding**

*Engineering Value*

***Krauss Maffei***  
*Berstorff*



EdelweissCompounding with twin-screw extruder

EdelweissCompounding with single-screw  
and twin-screw extruder

## KraussMaffei Berstorff solutions for recycling and compounding

### Example I: Recycling and compounding with twin-screw extruder

**Task:** Processing of PP recyclate

(washed and dried) with up to 30% talcum

**Capacity:** Up to 3.000 kg/h

**Target:** Production of compounds

**Scope:**

– Complete plant from silo to silo

### Example II: EdelweissCompounding with single-screw and twin-screw extruder

**Task:** Recycling of post-industrial LLDPE  
film waste and high-filled compounding  
with up to 70% CaCO<sub>3</sub>

**Recycling capacity:** Up to 2.000 kg/h

**Compounding capacity:** Up to 4.000 kg/h

**Target:** Production of compounds 100%  
comparable to virgin quality compounds

**Scope:**

- Cutter compactor for feeding recycling extruder
- Single-screw extruder for recycling
- Filtration and melt pump
- Twin-screw extruder for compounding
- LIW-feeding system for comp. extruder
- Pelletizing system
- Finished product handling
- Control system for whole line

### Example III: EdelweissCompounding with twin-screw and twin-screw extruder

**Task:** Recycling of post-consumer waste  
(PP, PE, DSD) and general compounding  
(filling, reinforcing, colouring, adding of  
additives, etc.)

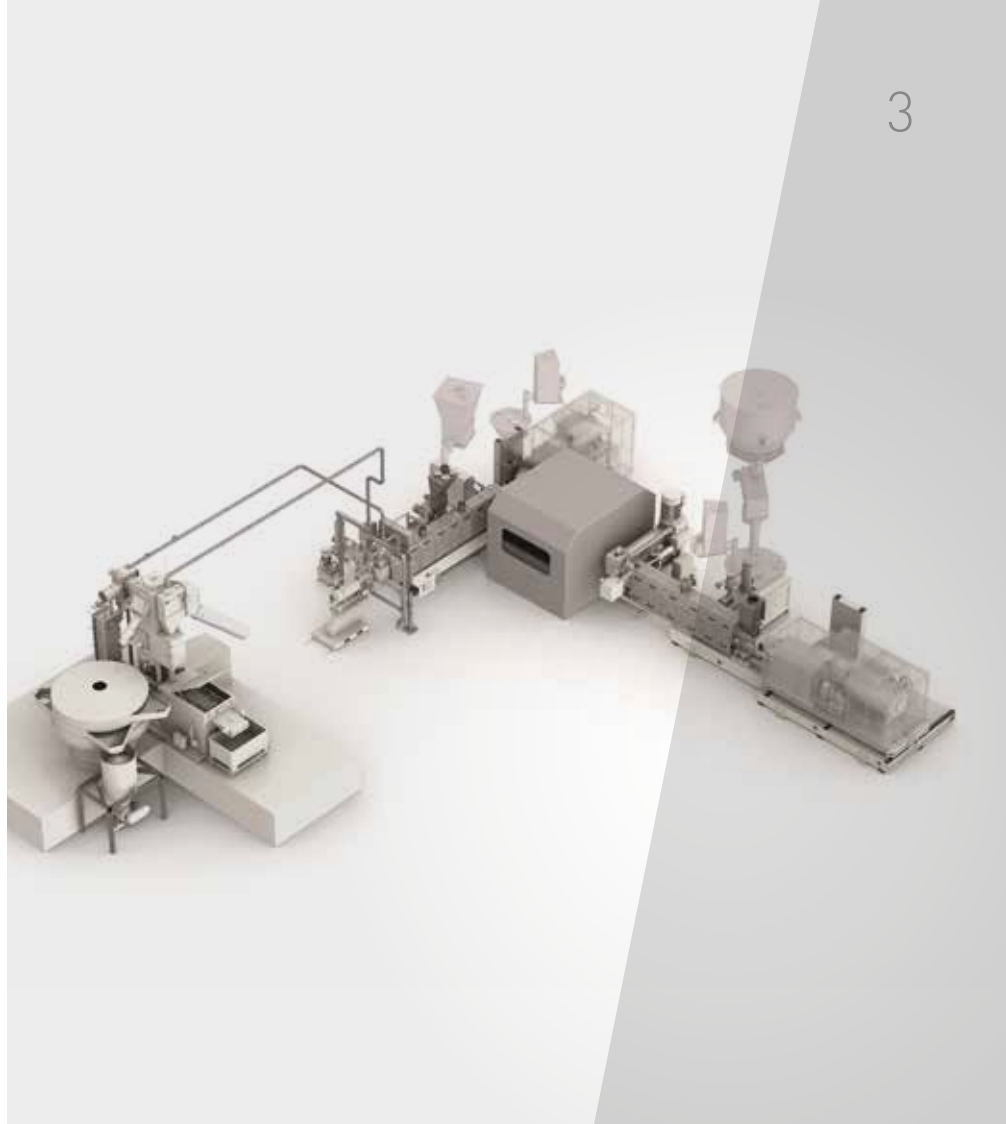
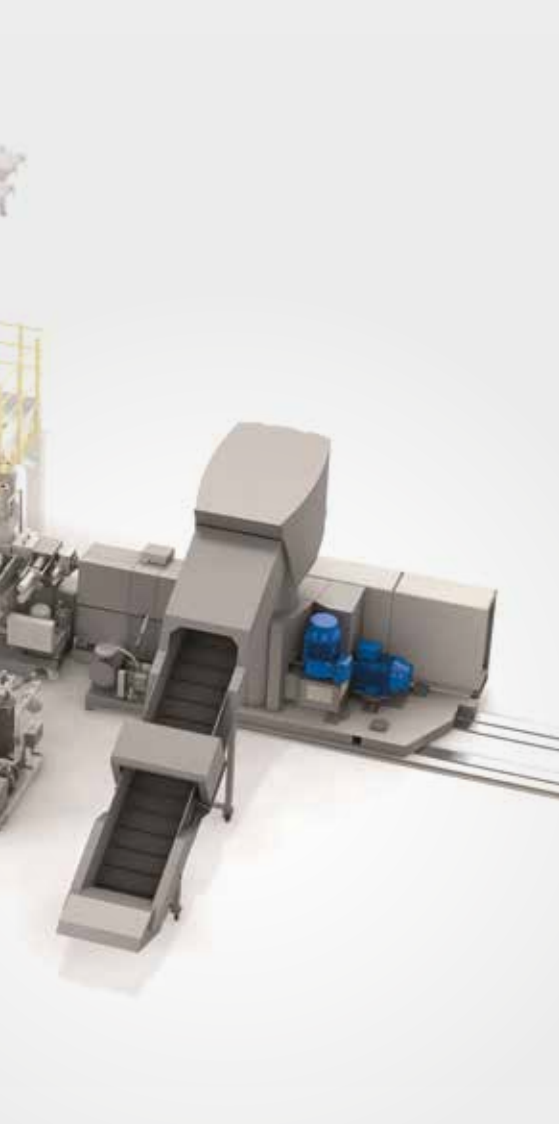
**Recycling capacity:** Up to 3.500 kg/h

**Compounding capacity:** Up to 6.000 kg/h

**Target:** Production of compounds 100%  
comparable to virgin quality compounds

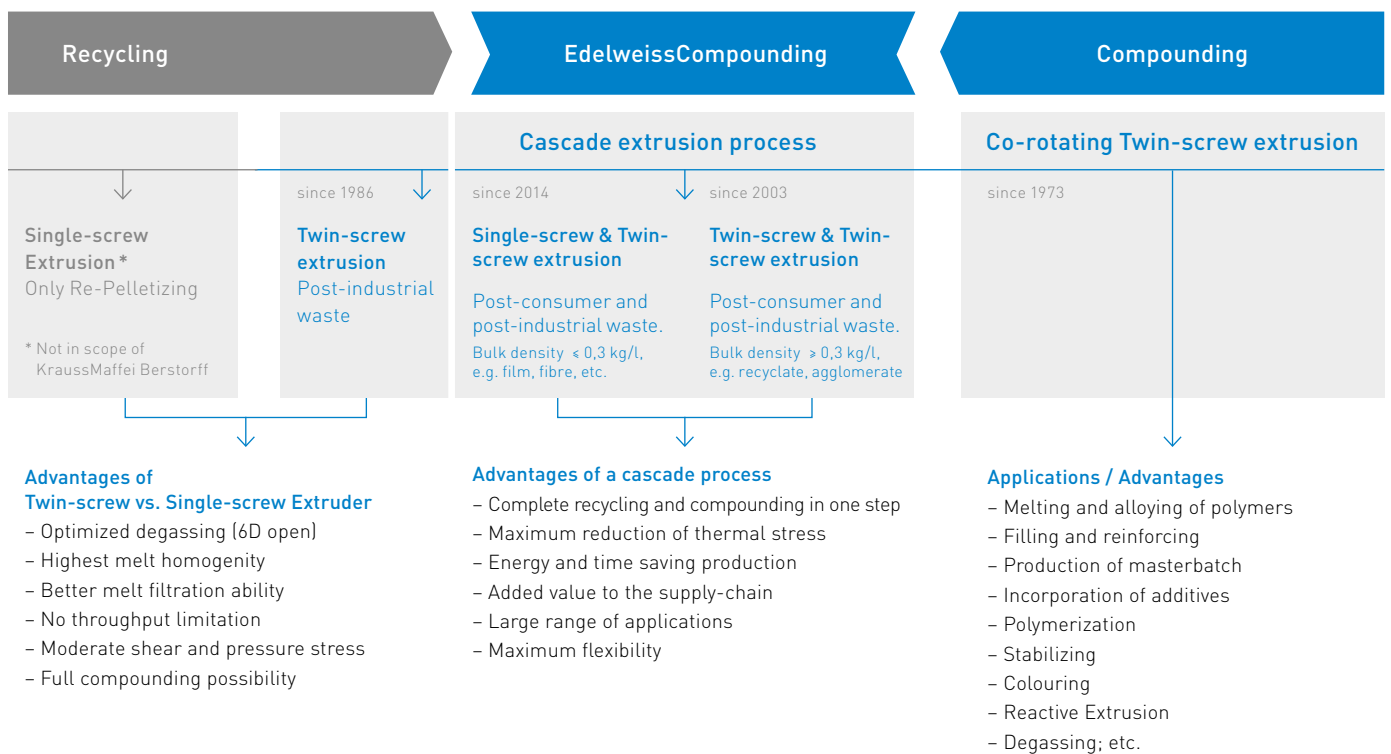
**Scope:**

- Preparation by customer (washing, grinding, sorting, etc.)
- Material handling/feeding system for recycling extruder
- Twin-screw extruder for recycling
- Melt pump and filtration
- Twin-screw extruder for compounding
- LIW-Feeding system for compounding extruder
- Pelletizing system
- Finished product handling
- Control system for whole line



EdelweissCompounding with twin-screw and twin-screw extruder

Concept overview EdelweissCompounding



# Tailor-made extrusion concepts for recycling and compounding processes

## EdelweissCompounding

High-performance extrusion solutions that optimize the plastic recycling process.

KraussMaffei Berstorff extrusion systems for recycling processes meet the highest demands regarding quality, efficiency and durability. The high-performance single- and twin-screw extruders can be employed both as an individual machine or in combination with a cascade process for clean regrind in-house plastic, post-consumer or post-industrial waste.

KraussMaffei Berstorff has linked together diverse tasks, such as material compaction, degassing, filtering and compounding to automated systems. The system provides a tailored solution for any plastics recycling and compounding task.



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