










# AGGLOREMA

## New technology, with agglomerated benefits:

-  **Perfect for highly contaminated, heterogeneous post consumer input materials** (varying materials, geometries, moisture levels)
-  **No pre-drying needed**, even with high moisture content in the input material
-  **Feedstock ideal for chemical recycling:** AGGLOREMA turns film rejects with low bulk density (from 30 kg/m<sup>3</sup>) into premium-quality agglomerates with high bulk density (280-380 kg/m<sup>3</sup>)
-  **Powerful homogenisation performance**
-  **Robust system**, high tolerance to contamination (no obstructive elements as with conventional pelletising systems)
-  **High-performance overall system** with a high degree of automation
-  **Stabilisers can be added** if necessary
-  **Efficient agglomeration with economical melt extrusion:** lower temperatures save energy (160-210 °C instead of the 220-260 °C of conventional pelletising)
-  **System for high throughputs:** current machine sizes for approximately 1,450 kg/h and approximately 2,300 kg/h (with potential for further upscaling)

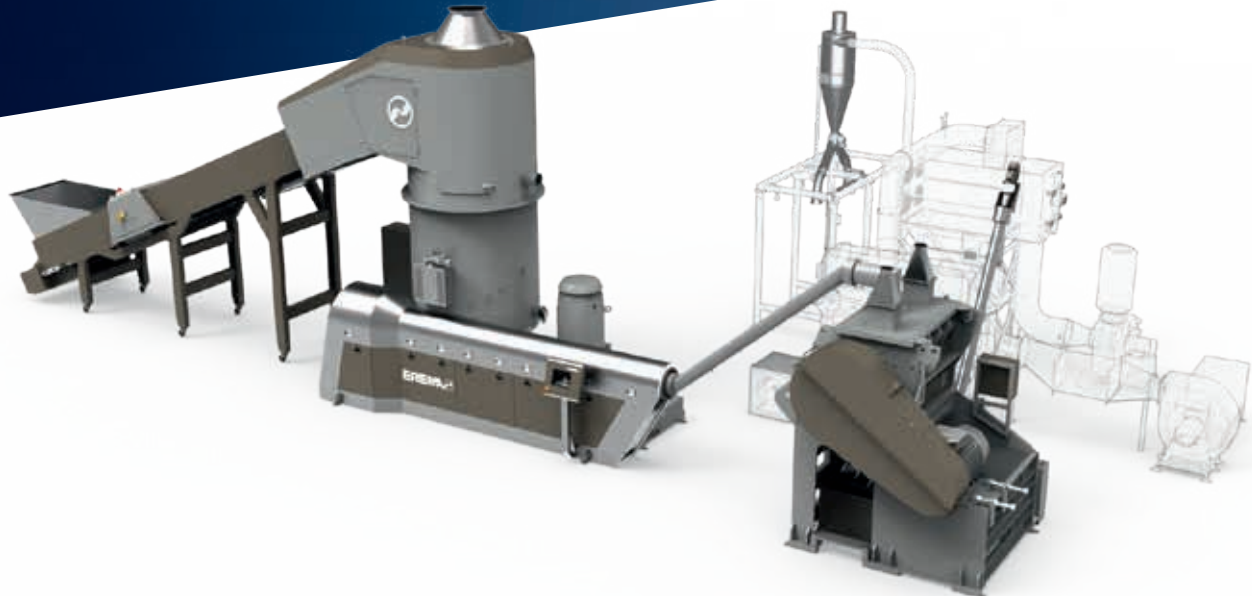
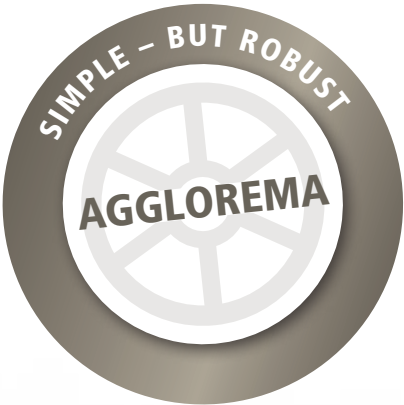
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# AGGLOREMA

High-quality agglomerates

CHOOSE THE NUMBER ONE.



CHOOSE THE NUMBER ONE.





## EREMA Preconditioning Unit with patented Counter Current® technology

The new AGGLOREMA reliably and efficiently handles even very low-bulk-density materials and materials with a widely varying composition – in terms of polymer, geometry and moisture. This is made possible by a unique combination of technologies: the EREMA Preconditioning Unit (PCU) with its patented Counter Current® technology and a specially developed extruder screw. **The result: a stable, robust process even when the quality of the input materials is inconsistent.**

The material is homogenised, preheated, dried and continuously fed into a short extruder without upstream drying. Whereas conventional agglomeration systems quickly reach their limits if the feed material has a low bulk density or fluctuating parameters, the AGGLOREMA has no difficulty whatsoever meeting these challenges.



CUTS



HOMOGENISES



HEATS



DRIES



COMPACTS



BUFFERS



DOSES



# AGGLOREMA

## High-quality agglomerates with the decisive PCU advantage.

Simple, robust, efficient – the new AGGLOREMA from EREMA turns highly contaminated, heterogeneous post consumer waste into premium-quality agglomerates – and saves energy in the process. These free-flowing agglomerates are the perfect feedstock for chemical recycling and guarantee reliable and logistically optimised input to the reactor.

### Highly contaminated post consumer waste

- Low bulk density:  $> 30 \text{ kg/m}^3$
- High input moisture content



## Flexible and robust: From low to high bulk density

The innovative AGGLOREMA system delivers maximum flexibility. The machine has no difficulty whatsoever processing heavily contaminated waste streams such as film rejects with low bulk density (from  $30 \text{ kg/m}^3$ ) and high, fluctuating moisture levels from sorting facilities. These materials are turned into premium-quality agglomerates with a high bulk density.

### Agglomerates

- High bulk density:  $280 - 380 \text{ kg/m}^3$
- Moisture content up to  $< 1 \%$
- Output size: typically 5-8 mm (can be influenced by mill grid size)



## Chemical recycling

Decentralised compacting for centralised chemical recycling.

- Simple and efficient logistics / handling
- Clean and safe handling in petrochemical environments

## Mechanical recycling

**Straightforward end applications** based on mixed PO fractions such as construction site fence bases

### Water-cooled melt mill

The partially melted material strand is fed into the water-cooled melt mill and turned into agglomerates with a high bulk density. Optional downstream drying reduces the residual moisture to less than one per cent. The straightforward and robust layout reduces energy consumption.

