



EKO CHEM

SMART Line

Pelletising lines

0.25 kWh
specific energy consumption

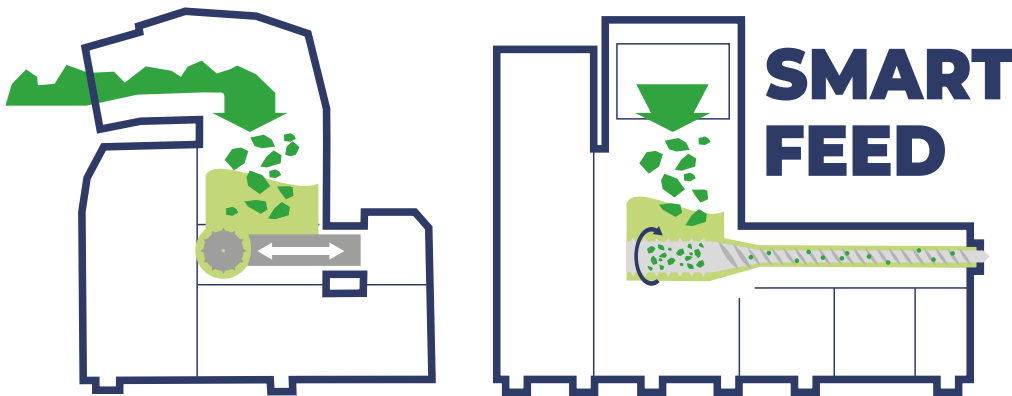
>99%
material utilisation rate



Optimised for the processing of plastics

- LDPE
- LLDPE
- HDPE
- PP
- ABS
- PS
- PA
- PVC

Adheres to the Zero Waste concept—our Smart line facilitates the closed-loop circulation of plastics within the manufacturing plant, supporting sustainable development policies and reducing disposal costs.



The system ensures stable processing of materials which prove difficult to process by traditional equipment. These materials include:

- strapping tapes
- fibres
- post-manufacturing waste with irregular structure
- foils and bulk materials

The line is suitable for manufacturing, ensuring smooth uninterrupted and cyclical feeding of the material. Whether the material is fed at a constant rate or in batches, the system automatically adjusts the parameters to the current processing conditions. This translates into a stable manufacturing process and full control over the material logistics.

One line. Maximum material processing flexibility.

The Smart Line was designed to provide maximum operating flexibility in the modern processing of plastics. It integrates crushing, extruding, and granulation into one system, allowing for stable processing of a wide range of materials—from heavy fractions to light post-manufacturing waste.

Smart technologies supporting the efficiency



SmartTrimFeed

A module for feeding edge trim directly to the extrusion section.



SmartDetect™

A smart sensor for monitoring the pelletising process and automatically reporting any operational irregularities.



SmartFeed

A precise ram feeder provides uniform and controlled material feeding to the processing area, eliminating the risk of material bridging and ensuring smooth operation.



SmartScreen™

A manual or automatic filter-swapping system. Filtration without stoppages. High purity of the material translates into consistent quality and granule uniformity.



SmartLiftFeed

A material transport system facilitating feeding of loose and irregular waste material directly to the shredder.



SmartPellet

Consistently high material quality with minimal material losses, compact structure and easy access.








Smart Start

up to **40%**
shorter start-up time

up to **50%**
lower operator involvement

The start-up takes just a moment, and most processes are automatic. An advanced control system ensures the stability of the process and the consistency of the manufactured regranulates.

Benefits for the team

-  quick machine start-up
-  high level of process automation
-  consistent regranulate quality
-  quick loading of parameters thanks to the system of recipes
-  intuitive operation and an integrated service modem







Smart Save

up to **40%**
lower energy consumption

Energy-efficient motors, cutting-edge inverters, and heat-loss reduction systems allow for lower energy consumption per kilogram of the processed material. A control panel enables real-time monitoring of the energy consumption and optimisation of operating parameters.

Benefits for your company

-  lower production costs
-  lower energy consumption per production unit
-  reduced process carbon footprint
-  more control over the energy efficiency of the system



The Smart Line combines the SmartFeed, SmartStart, and SmartSave technologies into a comprehensive recycling system, ensuring stable processing, high efficiency, and maximum flexibility of material processing.