



In-house film recycling

Granulate quality in your own hands

RKW Agri GmbH & Co. KG in Michelstadt prepares film waste from its own production and from various production sites of the RKW Group and returns it to the process cycle. Vecoplan supplies a complete system around two existing extruders.



Go far in-house

The RWK Group has set itself high sustainability goals and needed an efficient processing plant for the optimal recycling of film at its plant in Michelstadt. The Vecoplan solution met all requirements.

The big challenge was the limited space due to the given position of the two existing extruders. So the plant had to be planned and set up on two levels.

The feeding and shredding takes place at ground level next to the extruders. The complete separation and storage technology is for reasons of space on the upper floor.

Thereafter, the removal of ferrous and non-magnetic metals takes place on the second floor.

The films are delivered either loose, in bales or on rolls. A correspondingly variable

handling in the confined space was to be guaranteed as well as different types of loading:

1. Feeding via chain belt for:
 - a) Bales: open, remove wires, feeding chain belt
 - b) Loose film: collection in lattice boxes and discharge by means of forklift via chain belt
2. Feeding via roller feeder: mounting in steel frame, roller feeder at the hopper treads rollers and pulls them automatically into the shredder

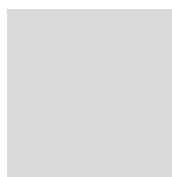
Because the throughput of the shredder is higher than that of the extruders, a part of the regranulate is stored in a buffer silo and fed level-controlled as needed via double screws simultaneously or via one side.

Equipment

- Chain belt conveyor
- Drag chain conveyor
- Permanent magnetic drum
- Metal separator
- Buffer silo

V-ECO 1300

- 90 kW
- W-rotor, 3 rows
- 50 mm screen perforation



High throughput
Consistently high
quality output

Buffer silo ensures high
availability and process
reliability

Vecoplan Live Service

Vecoplan USP

- Perfect planning of inventory architecture over two levels
- Integration into the existing system in confined space
- Complete system from a single source

Input material

- Film production waste from:
- PE-LD



Output material

- Particle size 50 mm
- Capacity up to 2700 kg/h
- Next step: extruder

„Not only can we significantly save costs with this very efficient shredding technology. We also have increased the quality of output material, we have optimized internal work processes and have increased productivity.“

Vecoplan®

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