



# LARGE-SCALE BIOWASTE REJECT COMPACTOR: ReCo450

High-performance manure dewatering  
solution optimized for dairy farm operations

**ANDRITZ**





# ANDRITZ: Your strong partner in recycling

ANDRITZ is a leading supplier of plants, equipment, automation solutions and services for hydropower stations, the pulp and paper industry, the metalworking and steel industries, and environmental and green energy-focused sectors. The ANDRITZ Group has about 30,000 employees at more than 280 locations in over 80 countries worldwide. ANDRITZ has core competencies in environmental processes and energy generation. Certain segments of our business, such as reject treatment and solid/liquid separation technologies, were involved in recycling long before it became a global social focus.

### STATE-OF-THE-ART MANUFACTURING CENTERS

ANDRITZ is at the forefront of the green transition, integrating environmental awareness with technological innovation. Leveraging advanced technology expertise, we support sustainability with a comprehensive portfolio designed for a greener future.

ANDRITZ Recycling offers a global service and sales network with access to state-of-the-art manufacturing centers. The synergy between recycling products and other equipment in our product portfolio allows these systems to be integrated into more complex plants configurations.



The ANDRITZ headquarters and production site in Graz, Austria

ANDRITZ Recycling - global manufacture network





# Revolutionizing biowaste treatment with unmatched capacity and dewatering efficiency

The ANDRITZ ReCo450 Reject Compactor is a next-generation, large-scale screw press specifically designed for the efficient dewatering of livestock manure, biogas digestate, and other biomass waste streams.

## APPLICATION FIELDS

Specifically engineered for the dewatering of livestock manure, biogas digestate, and a wide range of organic waste streams.

## KEY ADVANTAGES IN DAIRY FARM APPLICATION

**HIGH THROUGHPUT: MAXIMUM OUTPUT OF 6.25 TONS PER HOUR (MOISTURE CONTENT  $\leq 60\%$ )**

At moisture content  $\leq 60\%$ , the ReCo450 delivers a maximum output of 6.25 t/h—5 to 6 times the capacity of typical small-scale single-screw compactors.

## LOW MOISTURE CONTENT: $\leq 60\%$ MOISTURE CONTENT AT MAXIMUM OUTPUT

Even at peak capacity, the output moisture remains below 60%—3 to 15% lower than that of similar small equipment.

## LOW MAINTENANCE COST

The screen basket design offers high flexibility. Additionally, the screw flights in this zone are coated with a wear-resistant layer for enhanced durability. These innovations significantly extend service life, reduce maintenance costs, and enhance operational efficiency.

## HIGH DEGREE OF AUTOMATION

The ReCo450 is equipped with a PLC system that allows flexible adjustment of screw speed and backpressure based on production needs, delivering a user-friendly experience.

## WIDE RANGE OF APPLICATIONS

ReCo450 is designed to handle a variety of materials including dairy cow manure and biogas digestate, with adjustable moisture control and multiple screen basket configurations.



A glimpse into dairy cattle farming



Input & output moisture content test



Smart control system with simple operation and fast adjustment



**ReCo450  
BIOWASTE REJECT  
COMPACTOR**

ReCo450 in dairy farm for  
cow manure dewatering



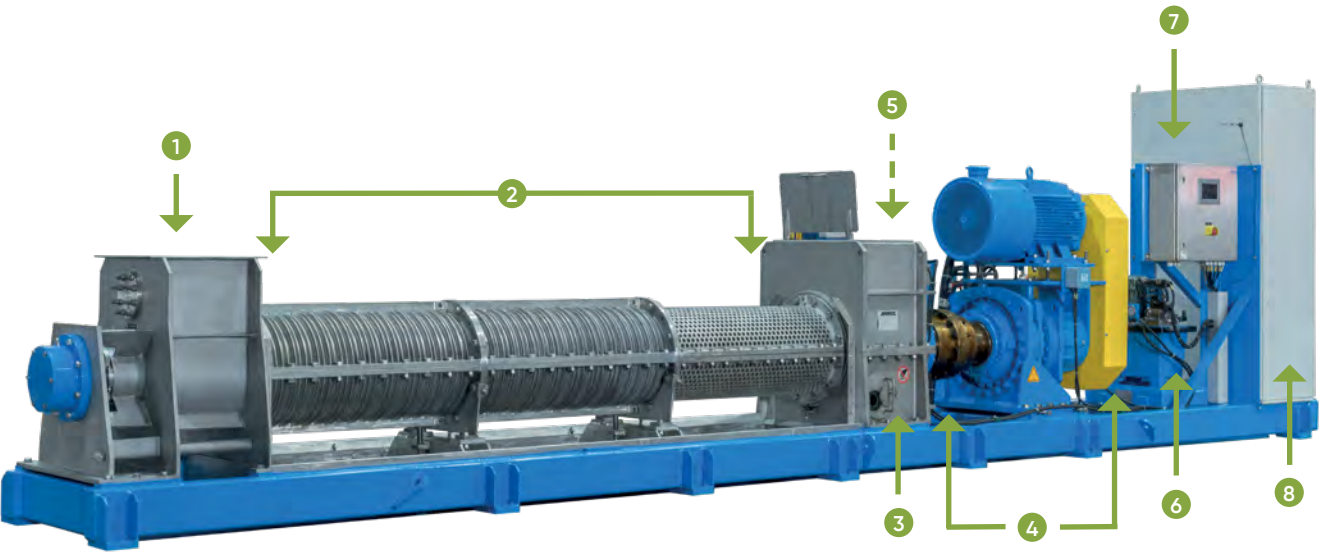
# A robust screw press designed to deliver optimum moisture removal

With its compact modular design, the ReCo450 screw press delivers multi-stage dewatering performance.

Engineered for industrial-scale applications, ReCo450 combines a durable basket with a high-efficiency motor in a compact footprint. Its heavy-duty design ensures stable processing and energy-efficient operation under continuous load.

It handles diverse organic materials with consistent performance and integrates easily into existing manure treatment systems—perfect for modern livestock operations.

- 1 Inlet chamber
- 2 Dewatering area
- 3 Output chamber
- 4 Drive system
- 5 & 6 Hydraulic counter-pressure system
- 7 & 8 Control system



### SPECIFICATIONS

Length	6,750 mm
Width	1,100 mm
Height	1,370 mm
Weight	4,800 Kg
Motor	75kw, 400v, 1,500rpm

### DEWATERING PERFORMANCE

At a maximum output, the ReCo450 achieves an output moisture content below 60%, significantly reducing the need for downstream processing. The dewatered material can be directly applied to farmland, stored, or used to produce cow bedding, offering an efficient solution for sustainable manure management.

Quality inspection of manure output



Manure output with moisture content ≤60%



Output used for comfortable cattle bedding

GET AN OVERVIEW of ReCo450. Watch how it works in dairy farms.





## OUR ENVIRONMENT IS A TREASURE TO BE PRESERVED

So are the raw materials contained in your waste products. Let us help you utilize them to best advantage. ANDRITZ Recycling is actively demonstrating its commitment to conserving valuable resources by offering a wide range of capabilities in the recycling industry. Our technologies cover solutions for processing rejects from the paper industry, e-scrap, metal and special waste, organic waste, end-of-life vehicles, wood, plastic and textile waste as well as applications for generating energy from various waste products.

ANDRITZ Recycling Service develops recycling solutions that benefits customers throughout the lifecycle of their mills and equipment. We keep operations running smoothly by supplying spare parts, performing routine work during scheduled shutdowns, responding quickly to disruptions, and implementing the latest IIoT solutions.

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