



RELIABILITY



LOW OPERATING COSTS



VERSATILE



HIGH PRODUCTION  
CAPACITIES



NO ENVIRONMENTAL IMPACT

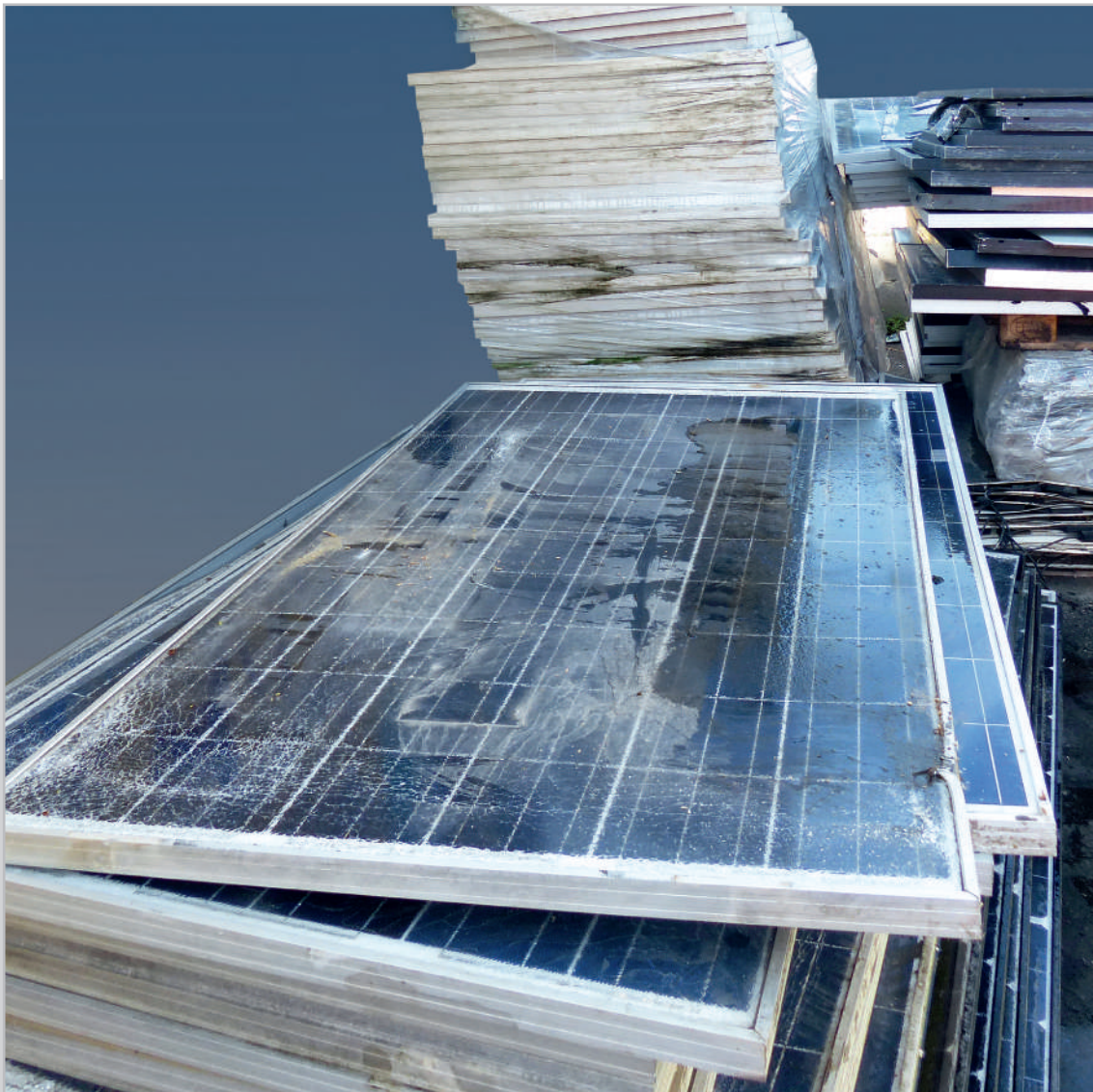


— CUSTOM

# PHOTOVOLTAIC PANEL

## TREATMENT PLANT

### TURNKEY



SMART SOLUTIONS TO PRESERVE THE ENVIRONMENT

TAILOR-MADE SOLUTIONS

# PHOTOVOLTAIC PANEL TREATMENT PLANT

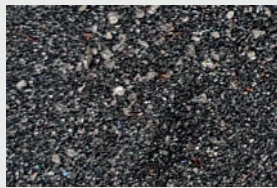
The FOR REC plant for photovoltaic panel treatment has been developed to efficiently and sustainably manage the end-of-life phase of solar panels. The process involves several separation stages that enable the recovery of valuable materials such as aluminum, glass, silicon, and EVA, while minimizing non-recoverable waste. The treatment line is modular and customizable, designed to adapt to different plant configurations and processing volumes.



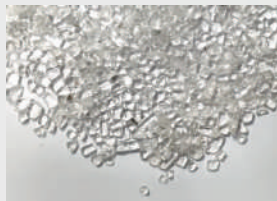
OUTPUT



powdered glass



silicon



glass granules



EVA



aluminum

## EDDY CURRENT SEPARATION SYSTEM

The eddy current separation system allows non-magnetic metals to be recovered from the flux. It consists of three main parts:

1. **Vibrating conveyor:** advances the material evenly to the next stages;
2. **Magnetic drum:** separates magnetic metals by a powerful magnet, which holds and removes them from the flux;
3. **Foucault current system:** uses a rotating magnetic field to repel non-magnetic metals, separating them from nonmetallic materials.

## CIRCULAR VIBRATING SCREEN

Circular vibrating screens separate the material flow into fractions of homogeneous and defined size, improving the efficiency of later separation phases.

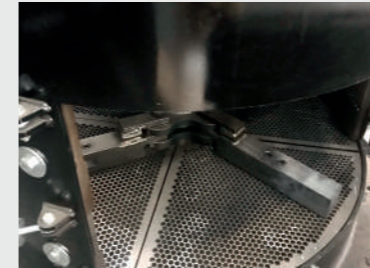


## ELECTROSTATIC SEPARATOR

## MC

### VERTICAL MILL

Vertical mills (MC) provide effective cleaning and refinement of the plastic fraction, helping to separate and recover inert materials such as glass and minerals. They are ideal for improving the quality of treated material and optimizing the next recycling stages.



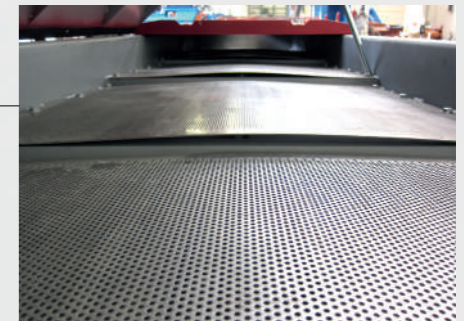
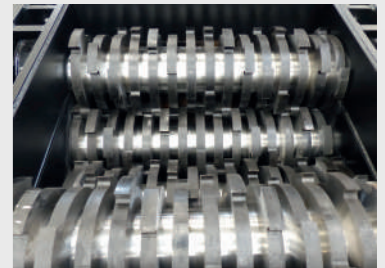
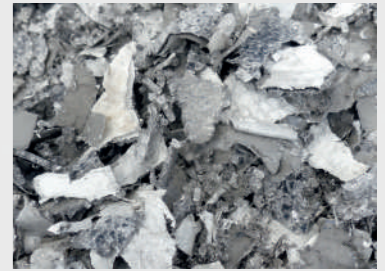
## TQ

### FOUR-SHAFT SHREDDER

Four-shaft shredders (TQ) combine the reliability and strength of twin-shaft shredders with the ability to control the size of material output. In the photovoltaic panel treatment system, the TQ shredder has a 30-mm grid to achieve enough reduction to perform a precise separation of materials.



OUTPUT



## VIBRATING SCREEN

The vibrating screen removes pre-sized glass, reducing wear on the machines in the subsequent processing stages.

## LC

### MULTI-CRUSHER

Multi-crushers are twin-shaft machines with special blades that are ideal in treatments where product preparation is required to allow subsequent manual sorting or automatic sorting. Working without a screen, they can handle high material flows. LC Multi-crushers are mainly used in the processing of WEEE (Waste Electrical and Electronic Equipment) to enable the opening of the appliance which is sent to the following sorting.



OUTPUT

INPUT



All systems made by FOR REC are modular and implementable according to specific customer needs.



SCAN ME!  
DISCOVER OUR PRODUCTS

