



RELIABILITY



HIGH DEGREE  
OF AUTOMATION



VERSATILE AND MODULAR



HIGH PRODUCTION  
CAPACITIES



LOW ENVIRONMENTAL  
IMPACT



— CUSTOM

# ALUMINUM

## TREATMENT PLANT

### TURNKEY



SMART SOLUTIONS TO PRESERVE THE ENVIRONMENT

TAILOR-MADE SOLUTIONS

FOR REC offers a wide range of aluminum recycling solutions, developed with the goal of transforming this precious metal into new resources ready for future production processes. Our plants are designed to significantly reduce the volume of aluminum waste and select materials for better valorization. Treatment lines can be designed based on the type of scrap (such as bulk or baled cans, profiles, aluminum castings, and cables), the quantities to be processed, and the specific treatment goals. FOR REC solutions include the use of primary shredders (XH and FX models) and hammers mills, providing flexibility and efficiency at every stage of the process.



OUTPUT

## XH

### SINGLE SHAFT HYDRAULIC SHREDDER

Single-rotor grinders of the XH series meet high working standards and ensure high productivity in the processing of various metals, aluminum, cables, pulper. Enhanced in structure and performance, XH series grinders combine the traditional grinding method with a technology based on interchangeable plates equipped with a special buffer bearing that protects against breakage. Everything in the construction of these grinders is designed to ensure maximum reliability, fast maintenance, and to achieve a significant increase in productivity.



### SCREENING STAGE

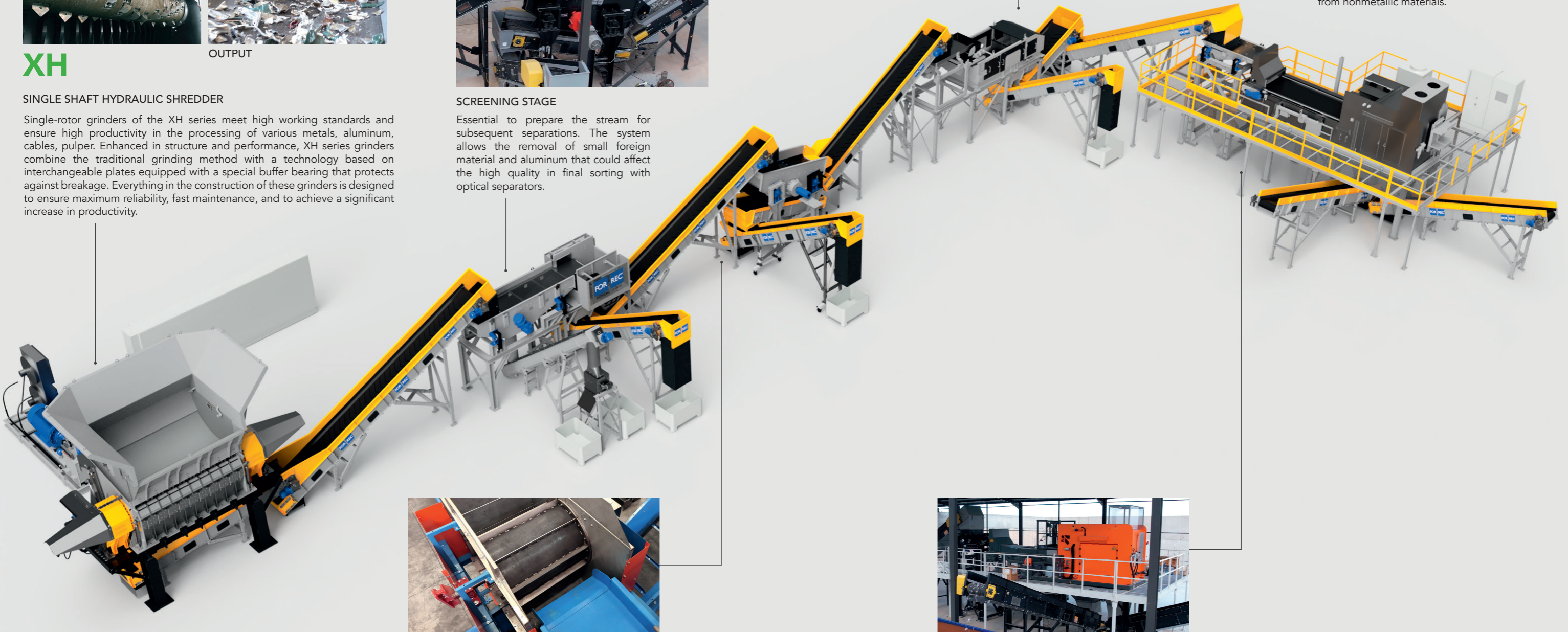
Essential to prepare the stream for subsequent separations. The system allows the removal of small foreign material and aluminum that could affect the high quality in final sorting with optical separators.



### EDDY CURRENT SEPARATION SYSTEM

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

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 reject non-magnetic metals, separating them from nonmetallic materials.



### DETECTION AND SEPARATION SYSTEM

The system is used to separate magnetic metals from other materials. It works through the use of powerful magnets and vibrating conveyors that allow the material to advance evenly and be attracted to the magnet while the rest of the material continues on its flow path.



### OPTICAL X-RAY FINDER SEPARATOR

Separation stage used to clean the stream and isolate the aluminum from the presence of small parts of other contaminating metals (copper and stainless steel) elevating the purity and quality, thus greatly increasing their value.

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



SCAN ME!  
DISCOVER OUR PRODUCTS

