

PET Bottle Recycling Washing Line

This PET bottle washing line is designed for efficient recycling and processing. It incorporates multiple stages including sorting, washing, label removal, crushing, rinsing, drying, and quality control.



System Overview

Modular PET Recycling Solution

This modular recycling and washing system is engineered to process PET bottles into clean, high-quality flakes suitable for downstream manufacturing. The line incorporates a comprehensive multi-stage workflow, including mechanical separation, hot washing, and advanced drying techniques to effectively remove contaminants like labels, metals, and foreign materials. Designed for efficiency and scalability, the system can be customized based on specific contamination levels, desired output quality, and required processing capacity.

System Components

Process Workflow

- Bale breaker
- Belt conveyor
- Pre-washer
- Label remover
- Screw feeder
- Metal detector bridge
- Separation table
- Crusher (15mm flakes)
- Hot washer
- Poaching tank
- Friction washer
- Dewatering machine
- Blowing and drying system
- Cyclone silo

Component Functionality

Component	Primary Function
Metal Detector Bridge	Detection of NE metal to protect downstream equipment
Poaching Tank	Density-based separation of flakes
Cyclone Silo	Dust separation and final storage
Dewatering Machine	Mechanical surface drying with rotating roller

Technical Specifications

Crusher Output Size	15 mm
Compatible Materials	PET, PP, PE
Density Separation Threshold	1 g/cbm