



PARINI
WASTE SORTING TECHNOLOGY

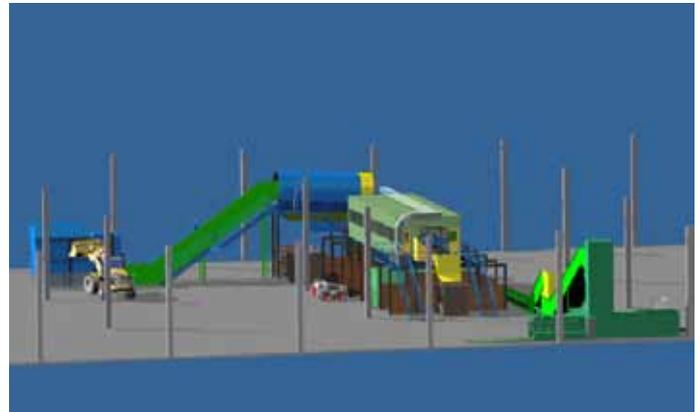


SORTING **PLANTS**

INDUSTRIAL AND DOMESTICS WASTE SORTING
LIGHT PACKAGING SORTING
PAPER AND CARDBOARD SORTING
RDF PRODUCTION



PARINI offers the benefits of over twenty years experience in the field to its Customers, by implementing a process that begins with a preliminary study of the plant, and leads to the final design, construction and assembly. Almost all our machines, drum sieve machines, ballistic separators, conveyors, platforms and sorting cabins are self-produced, endowing our plants with the highest degree of flexibility and reliability.



Light packaging/plastic bottles SORTING

The line is normally fed by a pit chain conveyor or by a bag-opener machine.

Waste is divided into different fractions through drum sieves and/or ballistic separators.

With the insertion of iron separators and non-ferrous materials separators, iron and non ferrous material can be recovered.

Other fractions like paper, film, PET, PP, PE, PS plastic materials are separated automatically with the insertion of specific machines, like air and optical separators, or manually in a sorting cabin.

A manual sorting control is always required at the end of the process, to guarantee the best sorting quality.

The sorted fractions are collected in storage boxes or automatic storage conveyors located below the sorting platform and conveyed to the baler trough chain conveyors.

Paper/cardboard SORTING

If the material comes from waste bins, where it is normally more contaminated, an initial screening is performed to remove dust and non-selectable smaller pieces.

The sorting process is done manually in sorting cabin or automatically via sensor based sorters.

It can be made 'in positive', by removing the recoverable fraction or 'in negative' by removing the rejected material.

The paper-cardboard sorting process allows the separation of the following fractions, (secondary raw materials):

- Deinking
- Brown cardboard
- White cardboard
- Mixed paper

The sorted fractions are collected in storage boxes or automatic storage conveyors located below the sorting platform, then conveyed to the baler trough chain conveyors.



BAG-OPENER

Normally fed by wheels loader, opens the bags dosing the contained waste on to a successive conveyor



CHAIN CONVEYOR



DRUM SIEVE

It performs an initial sorting of waste according to one or more sizes



BALLISTIC SEPARATOR

Allow to separate a unsorted waste flow in the following fractions

- light and flat fraction: paper, film, textiles, cardboard;
- heavy/rolling fraction: cans, plastic containers, wood, stones, metals;
- screened fraction: size based on the dimensions of the holes chosen for the paddles surface.



MAGNETIC SEPARATOR

cabin air conditioning system detail



ALUMINIUM SEPARATOR (eddy current separator)



SORTING CONVEYORS AND CABIN.

The separated fractions are manually sorted and their "sorting quality degree" is verified at the end of the process



SENSOR BASED SORTING

They sort according to color and type of material. They are used individually or in sequence , with 'positive' or 'negative' sorting mode



STORAGE CONVEYOR

Allow the temporary storage of sorted fractions and subsequent automatic feeding to the baler



BALER FEEDING



PARINI
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Parini Srl
Via S. D'Acquisto, 12 Albinea (RE),
42020 Italy

Tel.: +39.0522.59.99.90

Fax: +39.522.34.80.56

info@parinisrl.it
www.parinisrl.it

