



SCIENTIFIC AND MANUFACTURING FIRM

PRODECOLOGIA

WE KNOW BETTER, WHAT CUSTOMER NEEDS!

RECYCLING OF WEEE PLASTICS

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more than

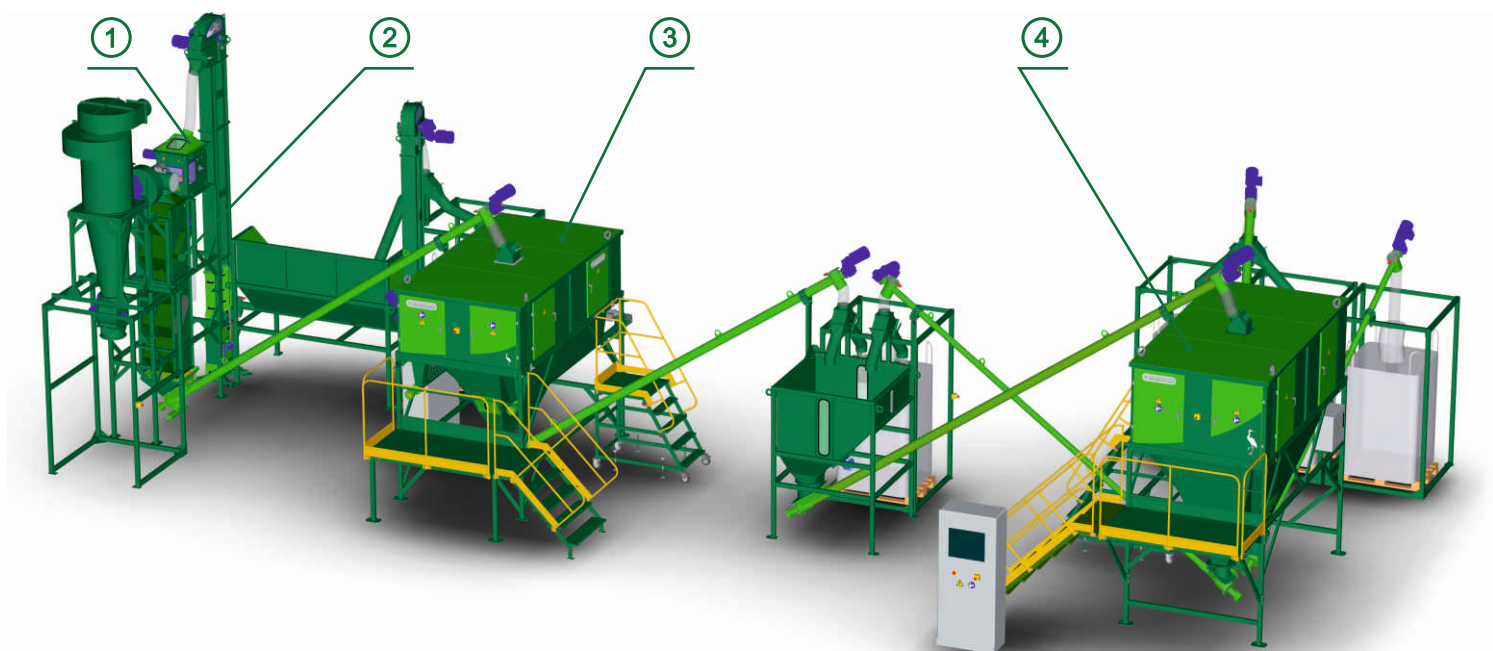
30
YEARS

of the experience
and
the innovations



EQUIPMENT FOR RECYCLING

RECYCLING OF WEEE PLASTICS



SMF Prodecologia offers efficient solutions for recycling of shredded WEEE plastics and possibility of obtaining concentrates of individual plastics. For example, concentrates of ABS and PS plastics.

Description of the technology

Recycling of WEEE plastics includes the following stages.

First stage

Magnetic and light fraction separation

Before extracting valuable components, the input material is cleaned from ferrous metal inclusions as well as dedusted to remove the light fraction.

Second stage

Corona electrostatic separation

At this stage, electrically conductive components are extracted and removed

from the product - non-ferrous metals (copper, aluminum, brass etc.), wood, conductive rubber.

Third stage

Tribo electric separation

From a pre-prepared and purified from various impurities mixture of ABS/PS/PP plastics, the ABS concentrate is obtained after the first separation stage and the PS concentrate after the second stage.

To extract elastic particles of rubber, silicone and polyurethane from purified ABS and PS plastics, the ST drag friction separator can be additionally used.

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- 1 - Drum magnetic separator BS.
 - 2 - Separator of light fraction SLF.
 - 3 - Corona electrostatic separator EBS.
 - 4 - Tribo electric separator EBS-T.



Benefits:

- quick return on investments;
- dry separation process;
- high purity of recovered products (> 98%);
- low power consumption;
- low labor intensity, ease of maintenance and operation;
- no harmful effect on the environment.

Design features:

- equipment of very different capacities;
- extraction of the smallest metal particles;
- minimal loss of valuable products with waste, possibility of additional cleaning of middlings and tales;
- individual regulation of process parameters for a particular material;
- using components from the world leading manufacturers (Nord, SKF, FAG, SEW Eurodrive);

- automated technological process.
- manufacturing of separators taking into account necessary requirements of the customer;

Service:

- installation supervision of equipment, commissioning works;
- warranty and post-warranty service;
- training of personnel working with equipment.

A - Mix of ABS+PS+others plastics.
 B - Plastics Mix, wood, conductive rubber.
 C - ABS.
 D - PS.

**Do you have a separation
need or recycling idea in mind?
We look forward to hearing about it!**



We are ready and happy to test your material
in the laboratory of our company to determine
the possibility and ways of its efficient recycling.

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