

LIFE RESKIBOOT

MID-TERM SECTORIAL TECHNICAL WORKSHOP

Recovery of post-consumer ski boots and sorting to turn them into secondary raw materials

Plastic Sort Srl



ACTIVITY - TASKS

- Grind and sort old ski-boots to provide enough **TPU, PP and EVA** to produce **1.000 pair of sk-boots**
- Design and build a **rubber machine**
- Design and build a **multi-material machine**
- Optimize the **RP01 machine**



ACTIVITY - WORK DONE

- The RP01 has been optimized for the ski-boots selection
- Both machines were completely developed internally
- Three main phases of testing sorting of the material



RUBBER MACHINE

Description of the work performed - Action B1

Running Rubber Machine

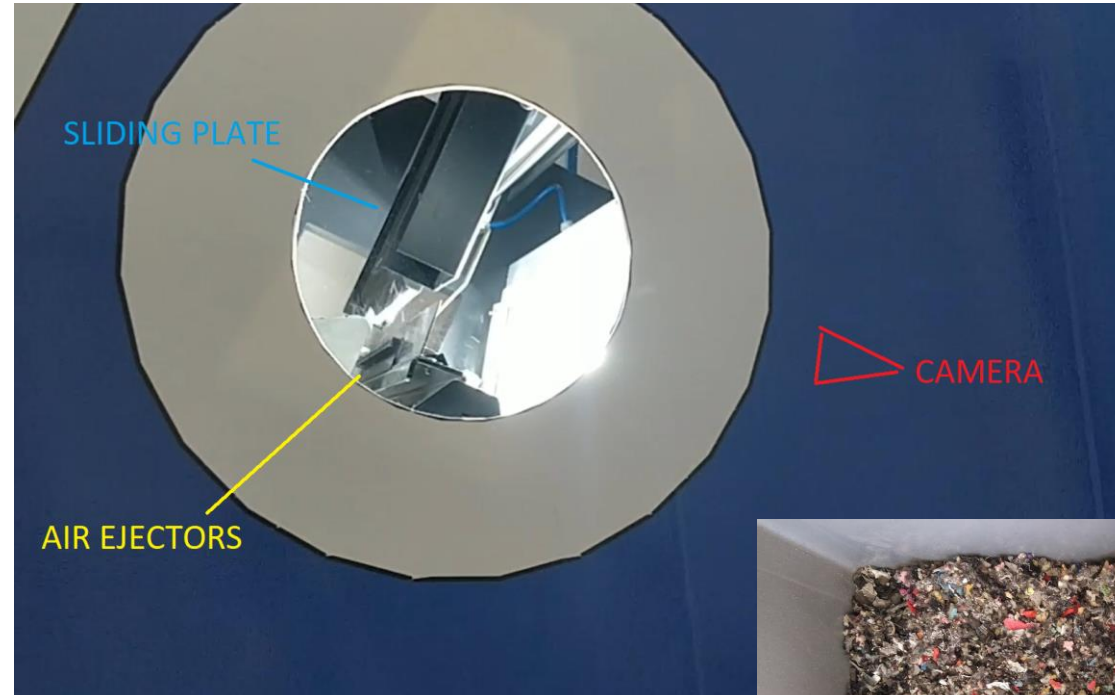
SORTING AREA

COLLECTING AREA

**MATERIAL
ENTRANCE**

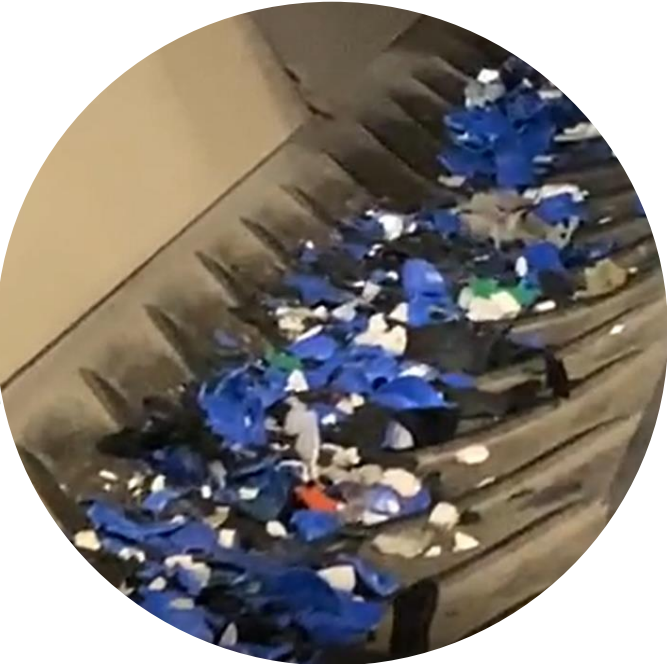


MULTIMATERIAL MACHINE





Grinding

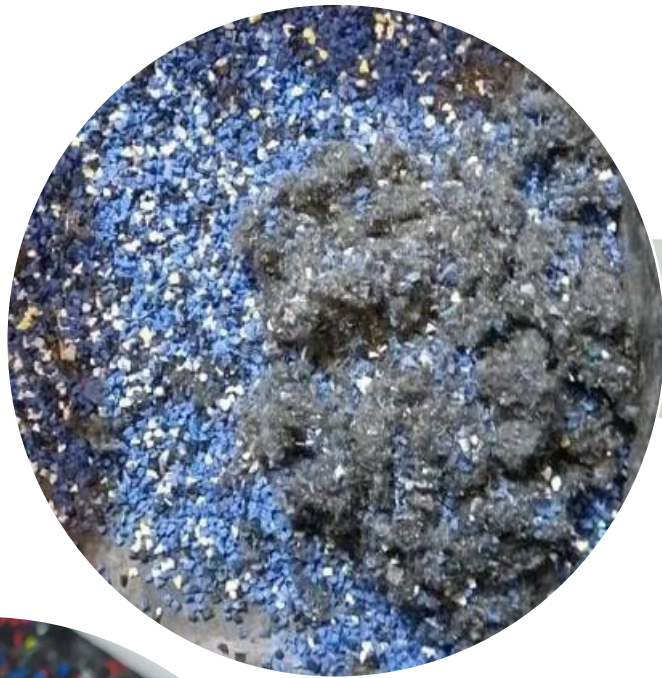


Metal
Sorting



Eddy
current

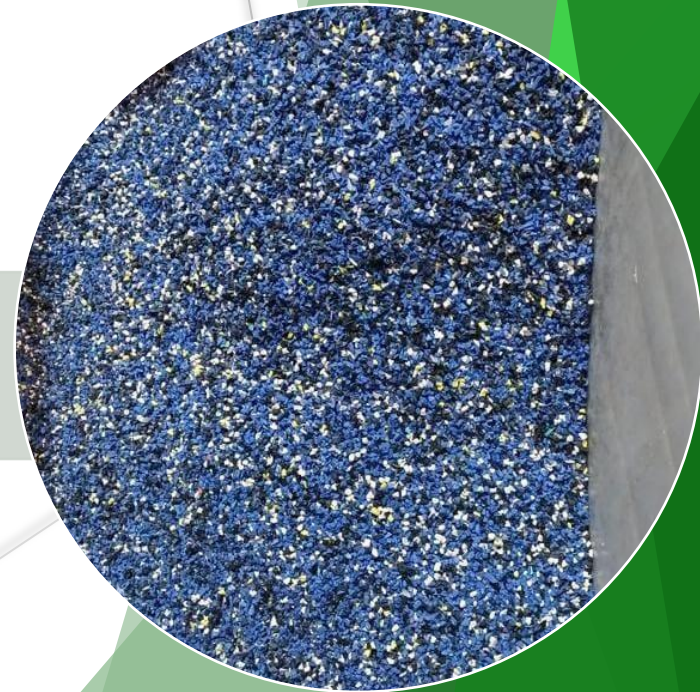




Air vacuum



Rubber machine



Multi-material machine



RP01 machine



MACHINES RUNNING VIDEO

Description of the work performed - Action B1



The screenshot shows a video player window with the following content:

- Browser tab: SEPARAZIONE TPU_CORRETTO
- Logo: **Plastic Sort** with a stylized graphic of three curved lines in red, blue, and green.
- Text: **NEW TECHNOLOGY FOR PLASTIC SEPARATION**
- Horizontal separator: A thick red bar.
- Logos: A circular recycling logo with a blue figure and the European Union flag with the word "Life" in script.
- Text: **LIFE RESKIBOOT - TPU/PP SORTING**
- Video controls: A progress bar at the bottom showing 00:00.



KEY RESULTS - EFFICIENCY TESTS

Line efficiency:

- TPU → 71%
- EVA → 69%
- PP → 72%

Purity Degree of Recovered Materials:

1. TPU → 96%
2. EVA → 92%
3. PP → 97%



KEY RESULTS - DELIVERED MATERIAL

- TPU → 5.100 kg
- EVA → 800 kg
- PP → 600 kg



THANK YOU FOR THE ATTENTION!



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