

Description of the result

A quality control and sorting device equipped with multiple sensors, direct sorting units (e.g. multi chamber separator) and powder handling technologies. PHOENICS is designed to characterize fine spent refractory materials (< 5 mm) ensuring a continuous quality control and to separate the material based on size fractions, physical properties and/or chemistry. Powder handling technologies ensure the safe operation of dust streams. This sorting device is being designed as a mobile unit for fine particles (< 5 mm).



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Problem addressed



Low recyclability rate for solid waste in fine fractions (0–5 mm); current state downcycling or landfilling

Main features & benefits

High throughput continuous quality control and sorting device for fine fraction solid waste. Purification of CRM fractions yields in secondary carbon source and increases recycling rate in low carbon bricks. Safe powder handling.



Contact & Further Information

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Who Is Leading the Development?



RHI MAGNESITA



Exploitation potential

Manufacturing and Recycling Industries,
R&D institutes, SMEs.



Technical facts

The final design is not yet released (IP
protected).





Target users /stakeholders

Spent Refractories, Demolition Waste,
Slag (Application in Industries and R&D)



Scan to learn more about
Demo B

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