

DRY SOLIDIFICATION WITH HEAT RECOVERY OF FERROUS SLAG

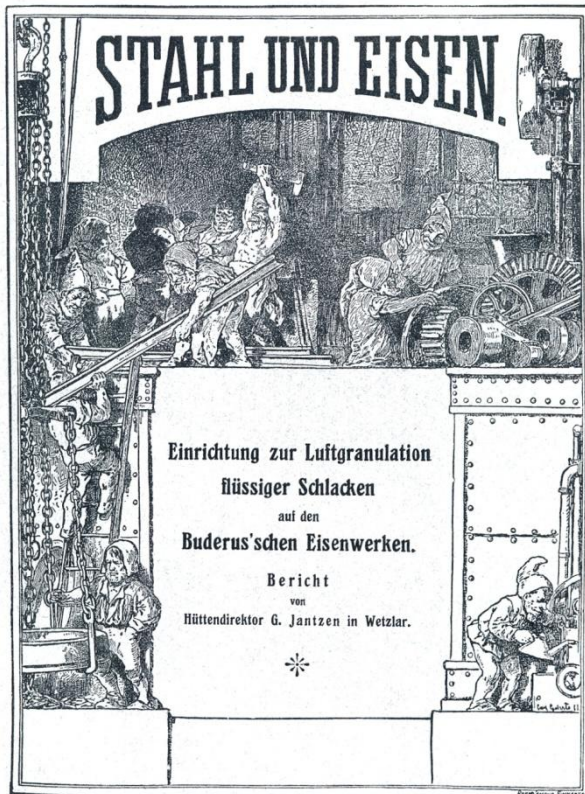
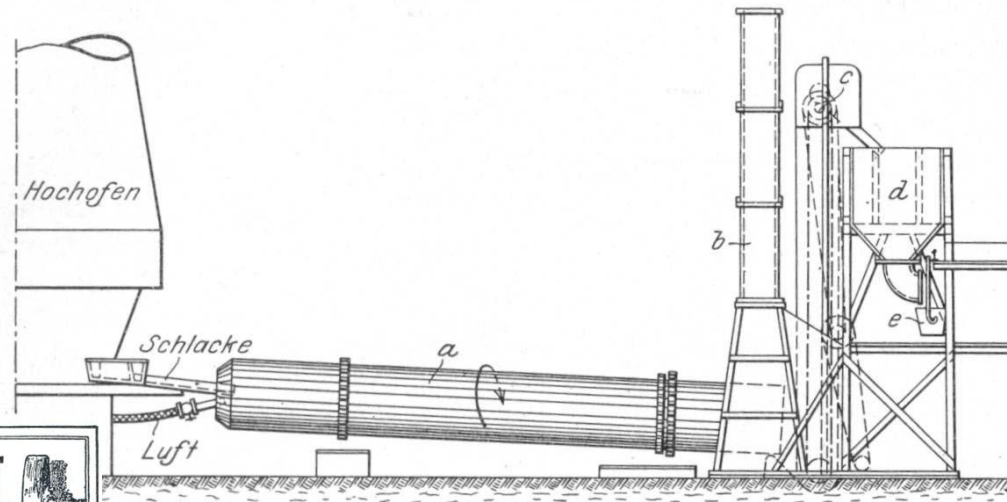
Heribert MOTZ, Andreas EHRENBURG,
Dirk MUDERSBACH

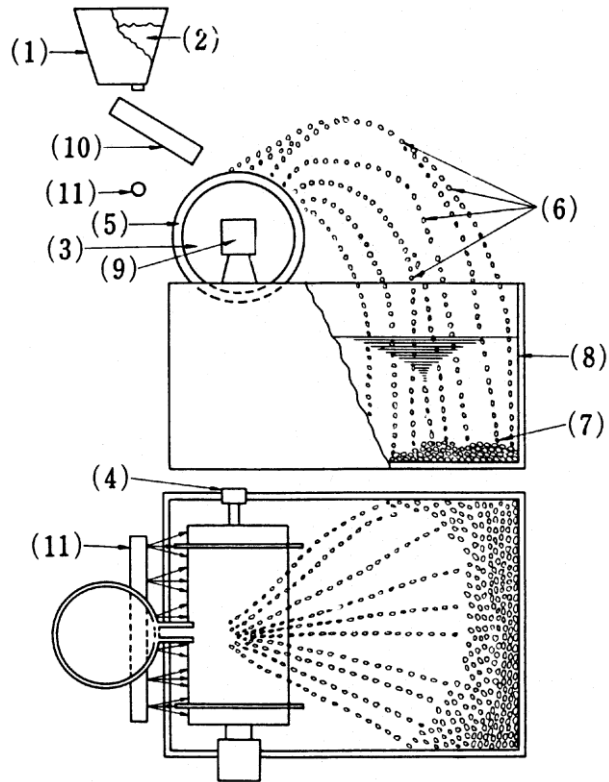
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Historical methods

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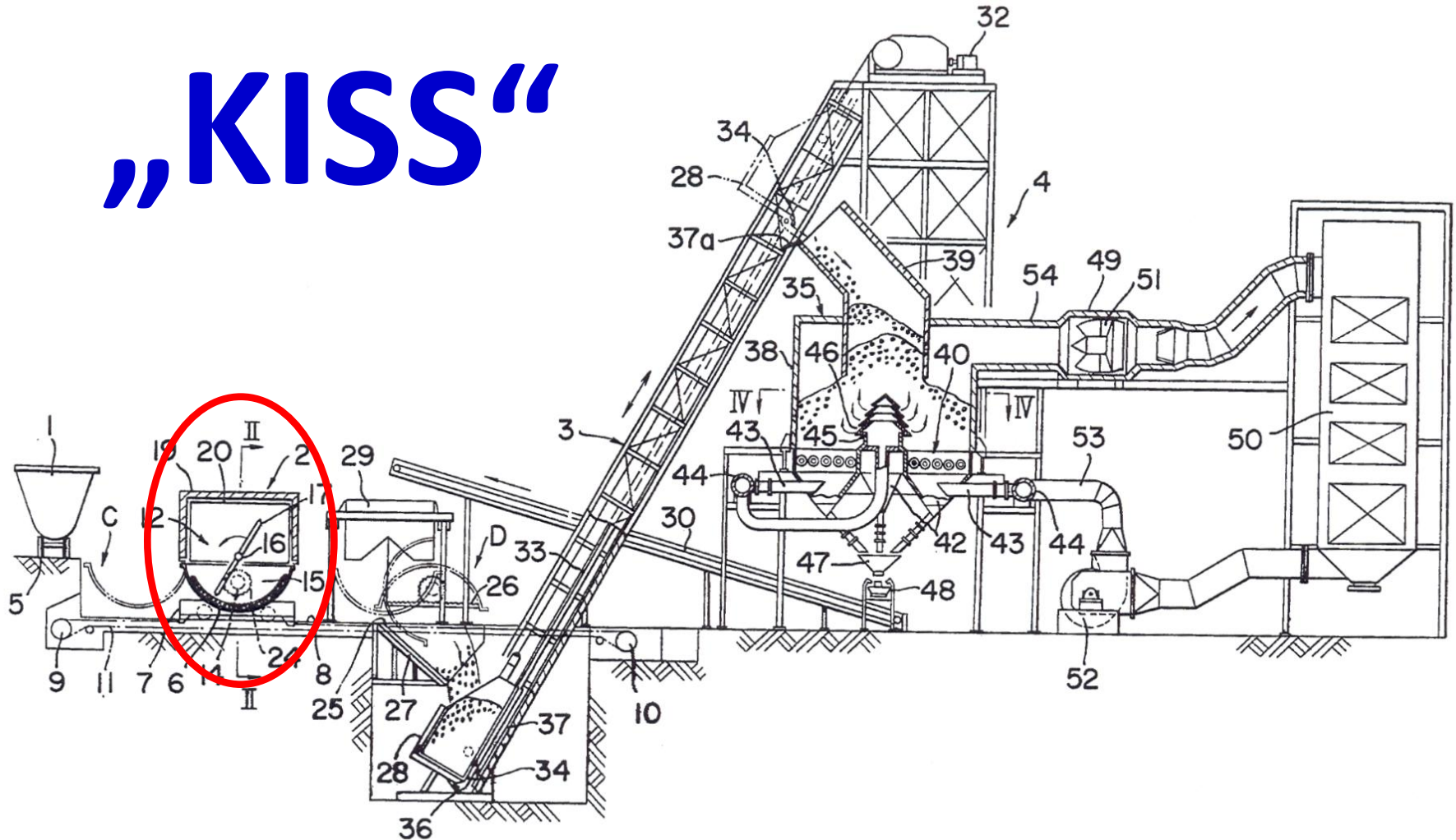


- | | |
|-----------------------------------|--|
| (1) Slag ladle | (7) Slag grains cooled in the water pool |
| (2) Molten slag | (8) Water pool |
| (3) Rotating roller | (9) Driving motor |
| (4) Roller support | (10) Chute |
| (5) Side fin | (11) Cooling water jet |
| (6) Scattered and pulverized slag | |



Nippon Steel Rotating Roller method

„KISS“

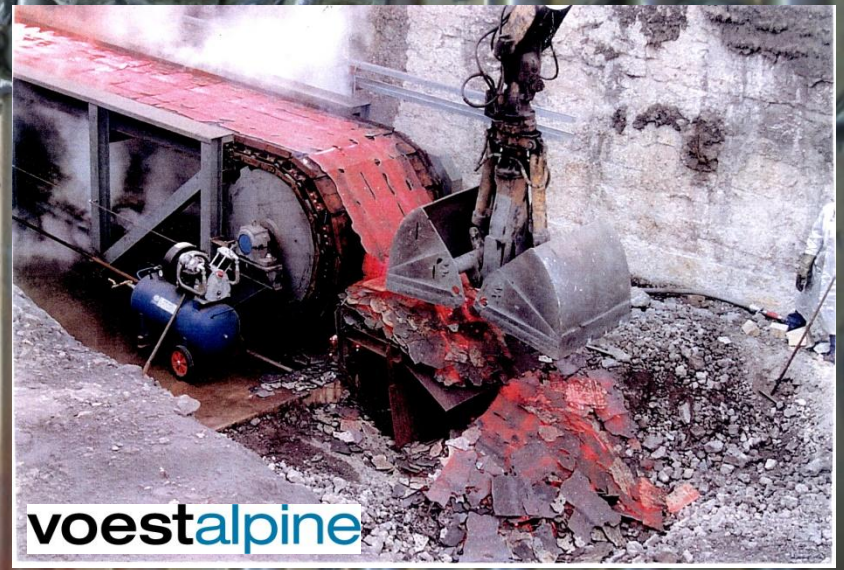


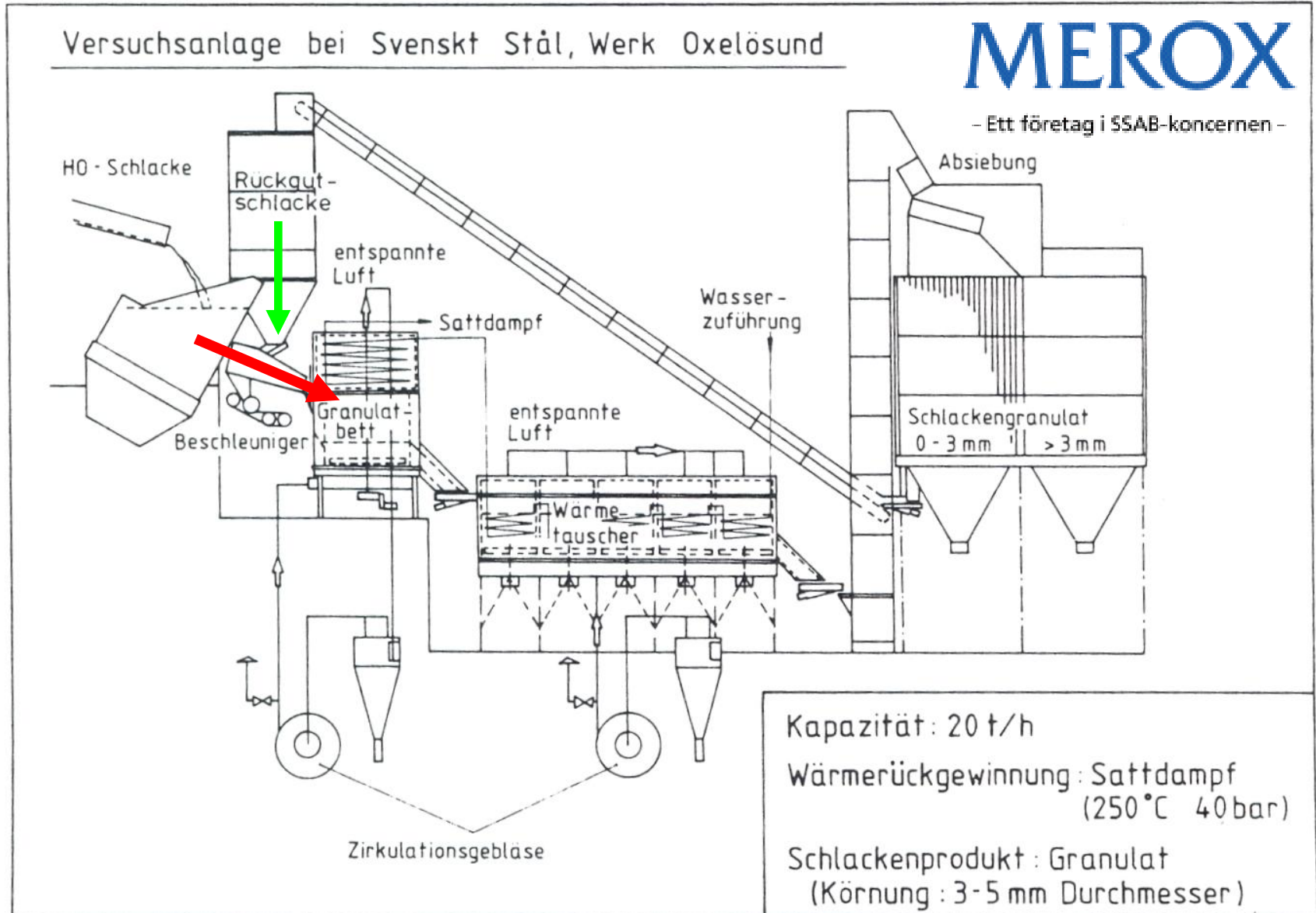
Problems for dry solidification of ferrous slags:

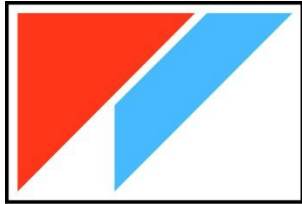
- viscosity of slag between tapping and solidification
- heat capacity of liquid slag
- heat conductivity of liquid slag
- transport/storage/distribution of liquid slag
- sticking/scalings/covering of slag pots and runners
- liquid metal in the tapped steel slag
- maintenance/wear

Blast furnace slag

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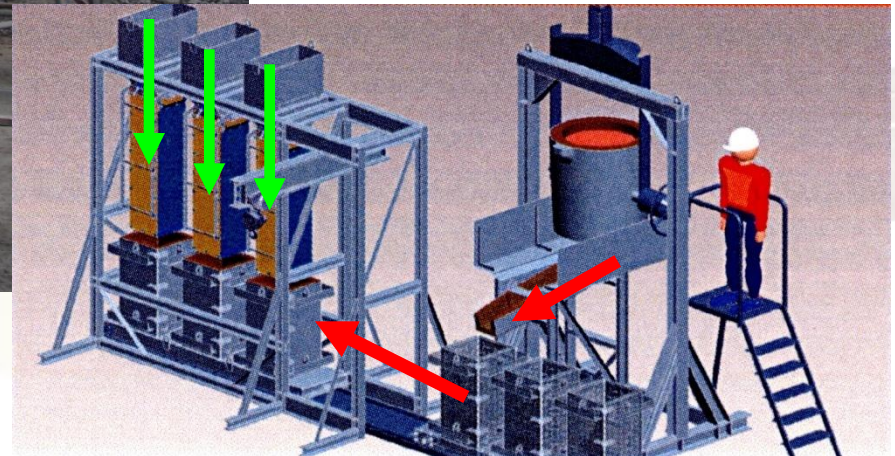


PAUL WURTH

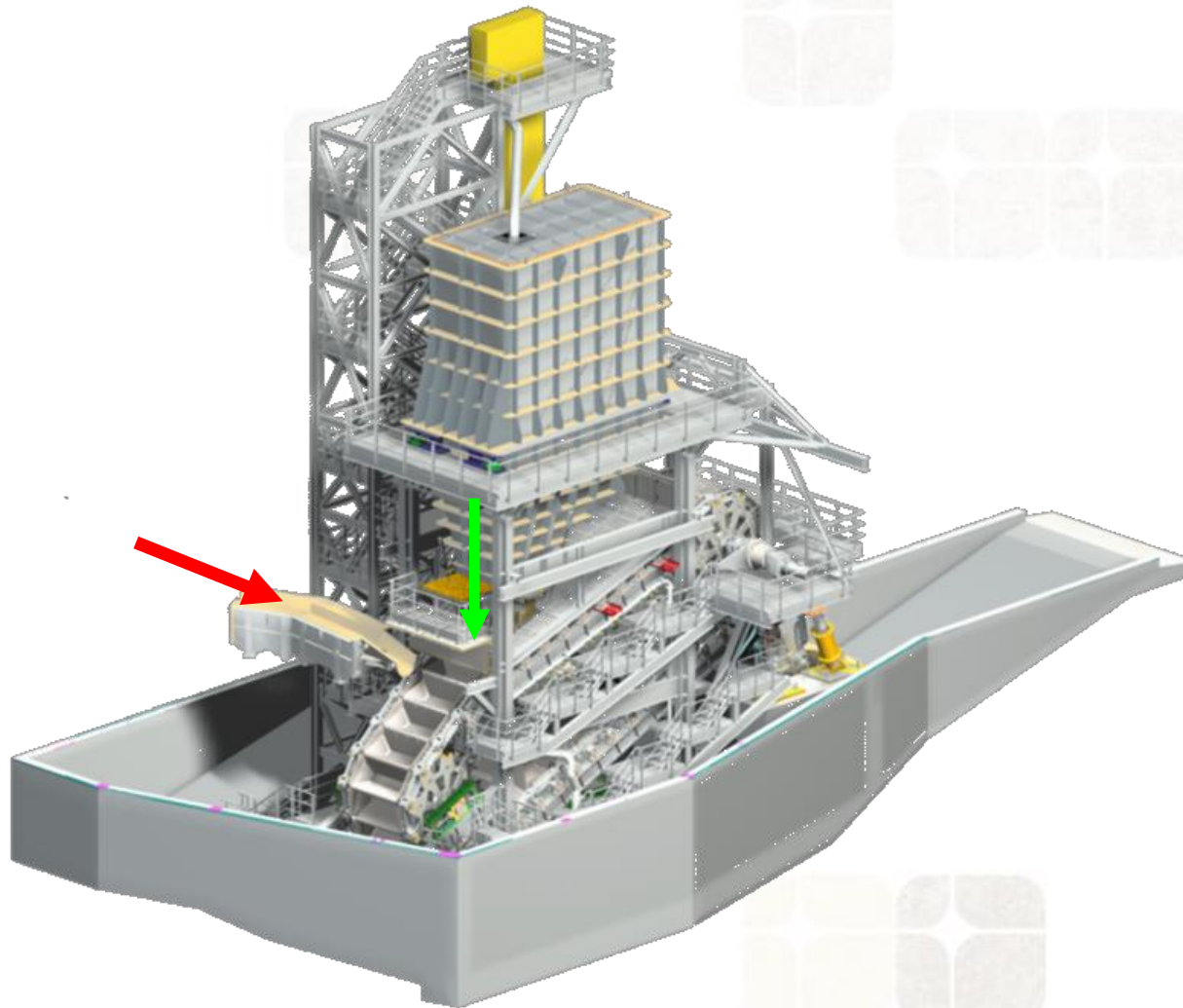


DILLINGER HÜTTE

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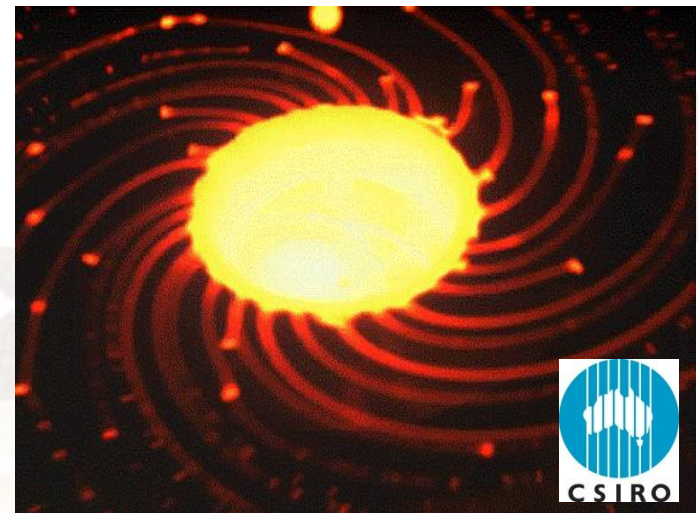
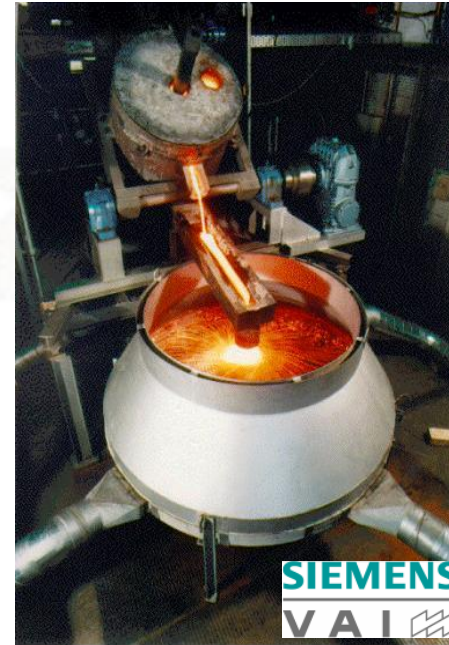
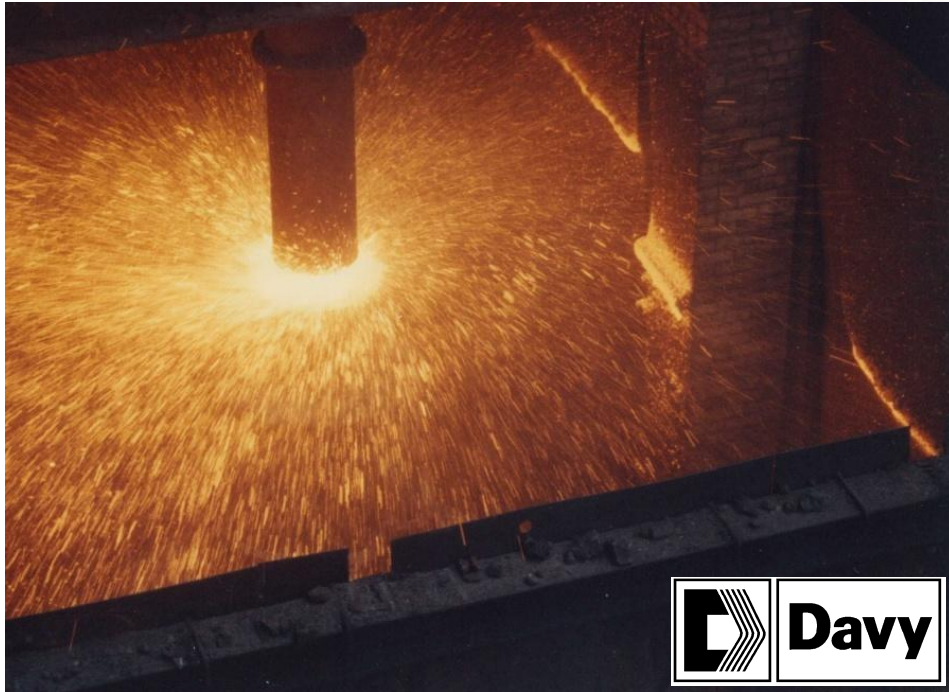
voestalpine



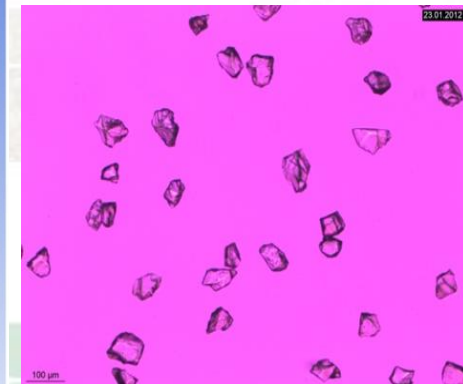
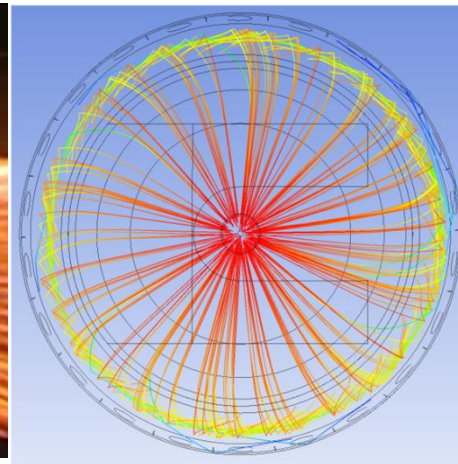
ThyssenKrupp Steel Europe

SIEMENS

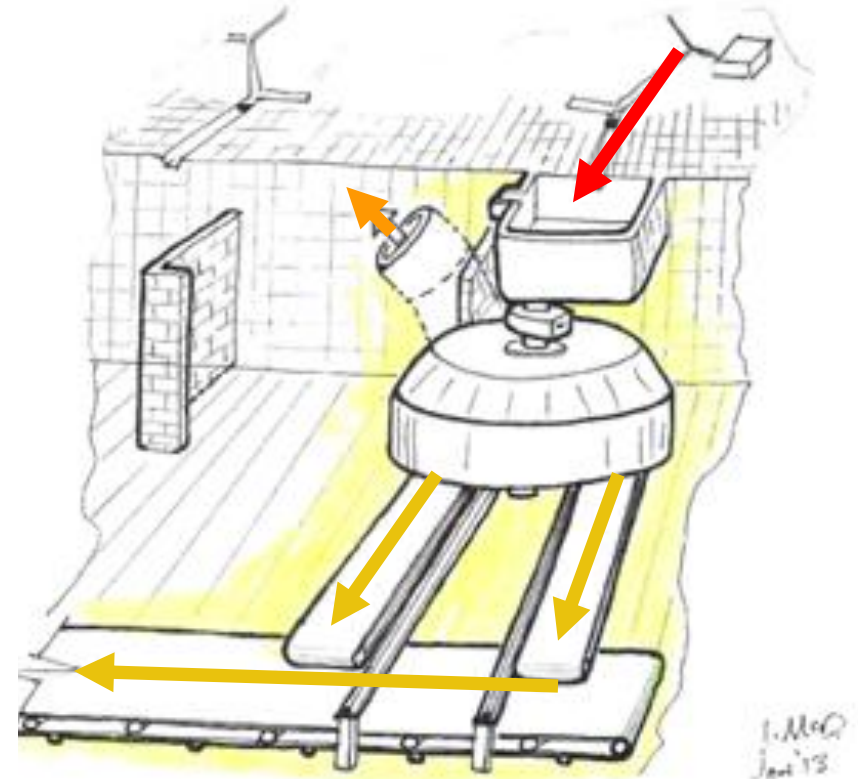
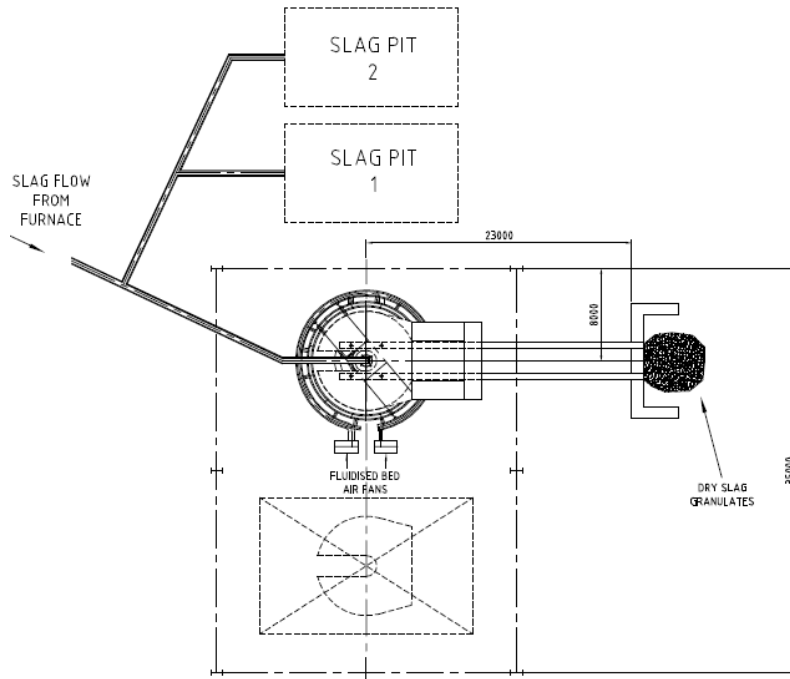
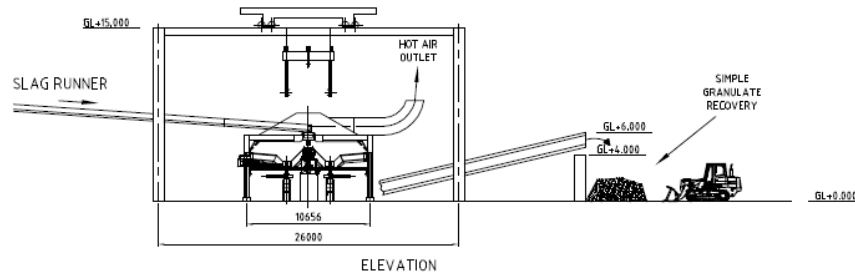
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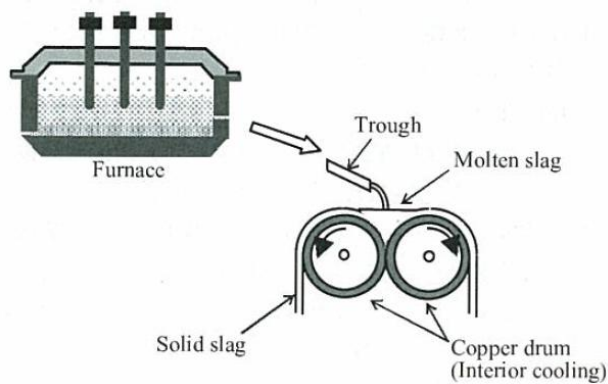
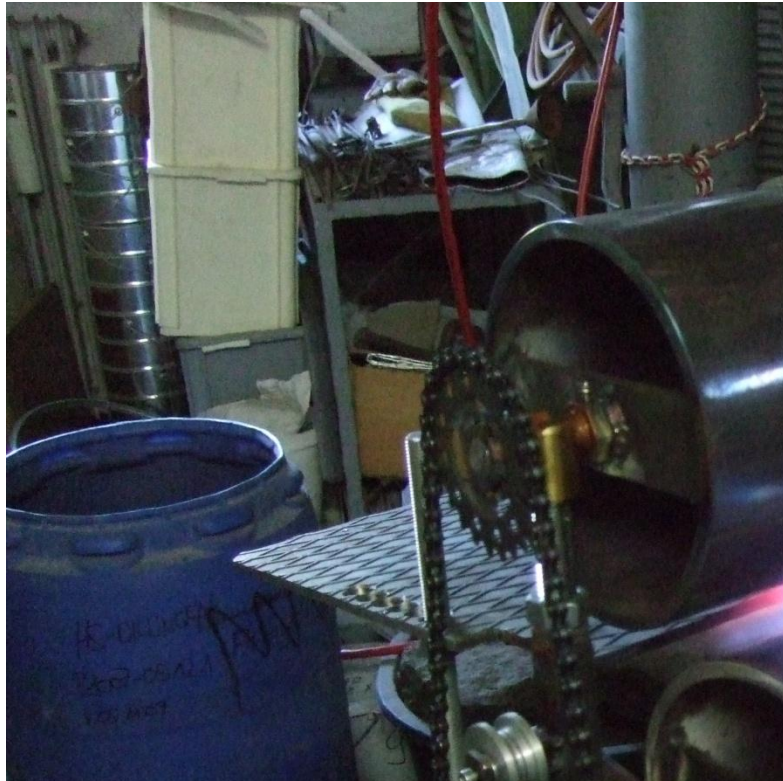


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Steel slags

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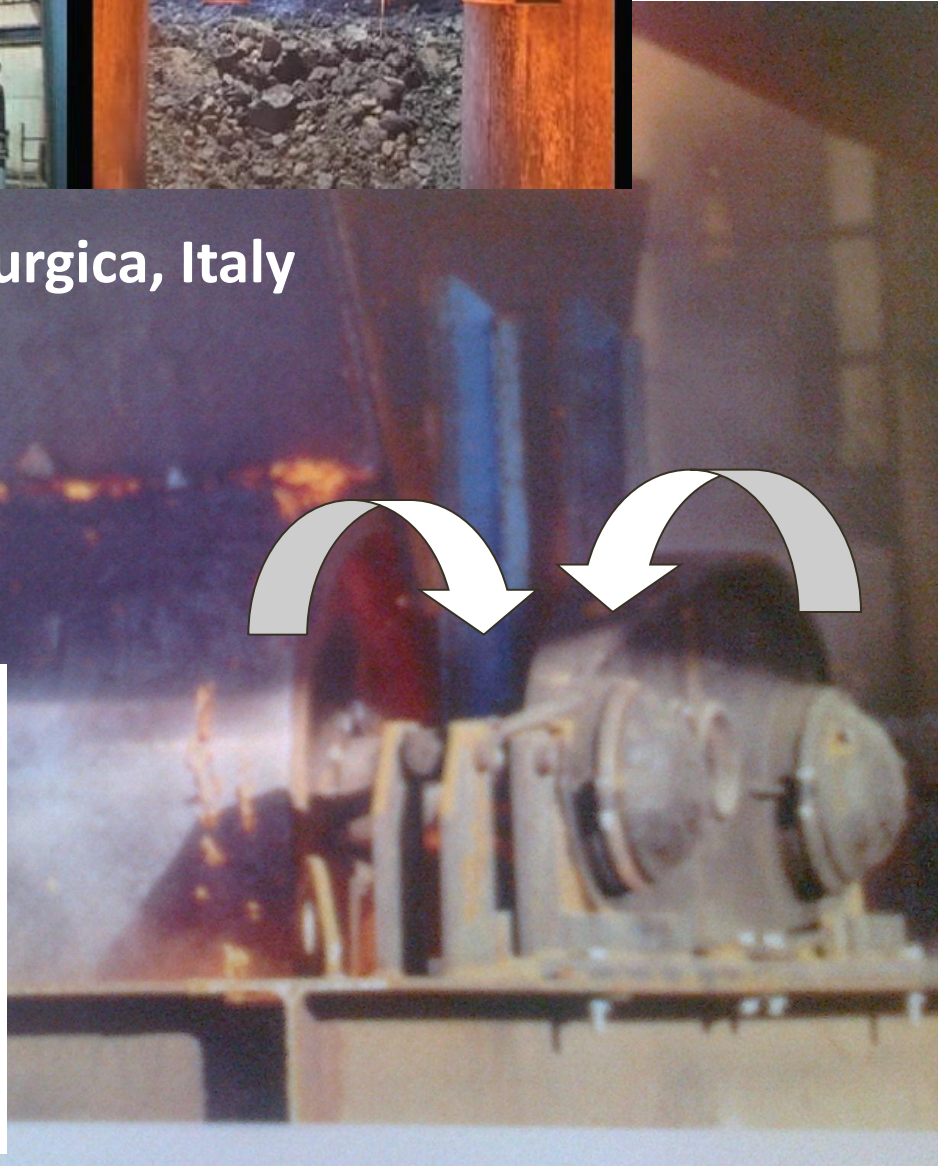
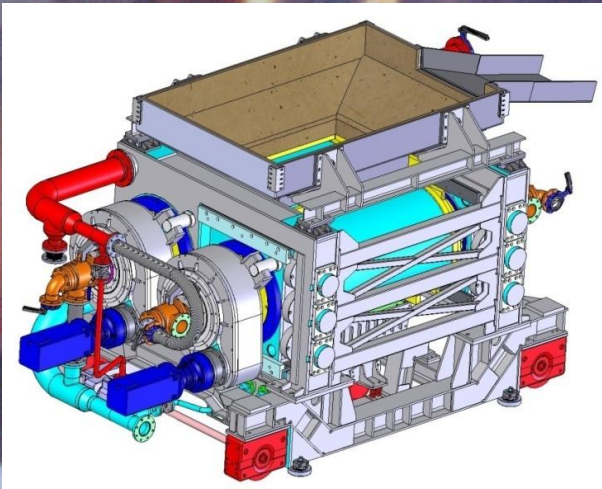


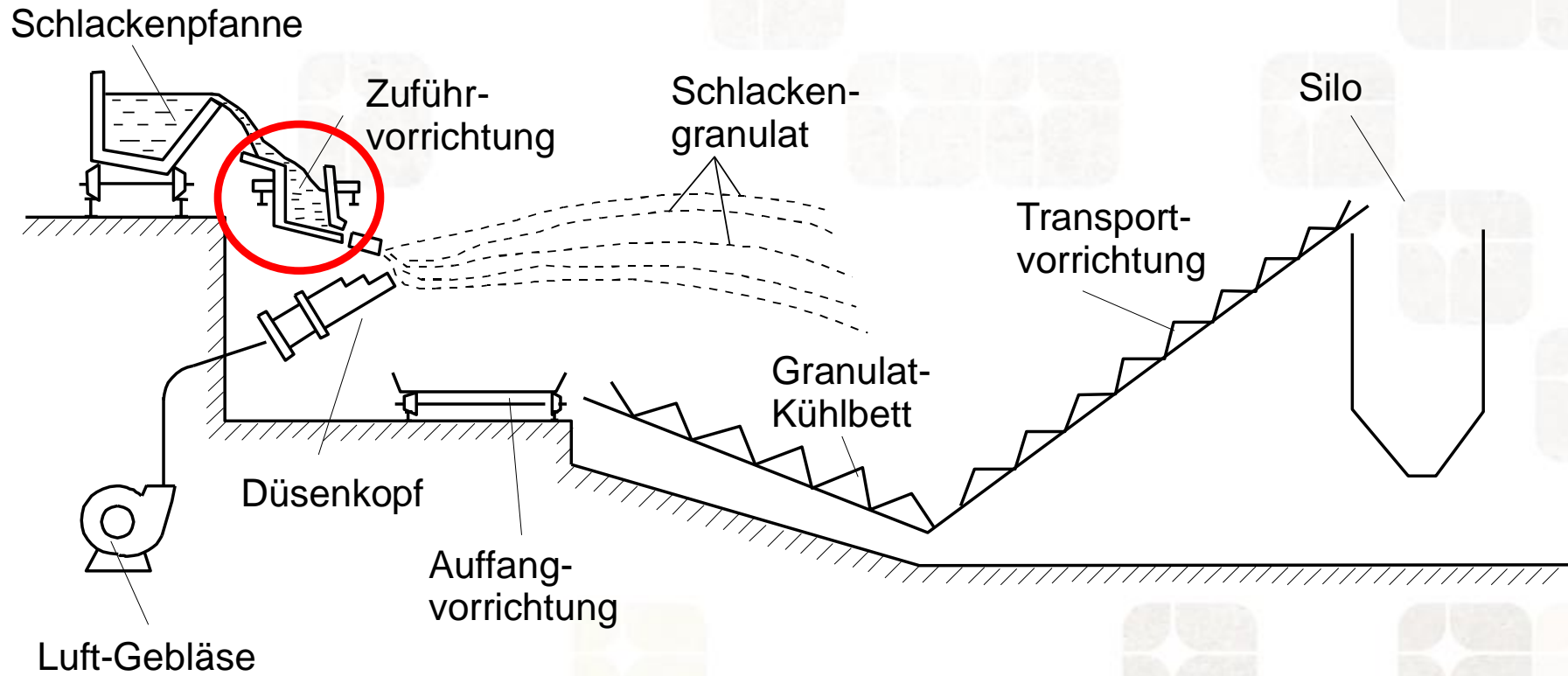
DRY SOLID

WET SLAG



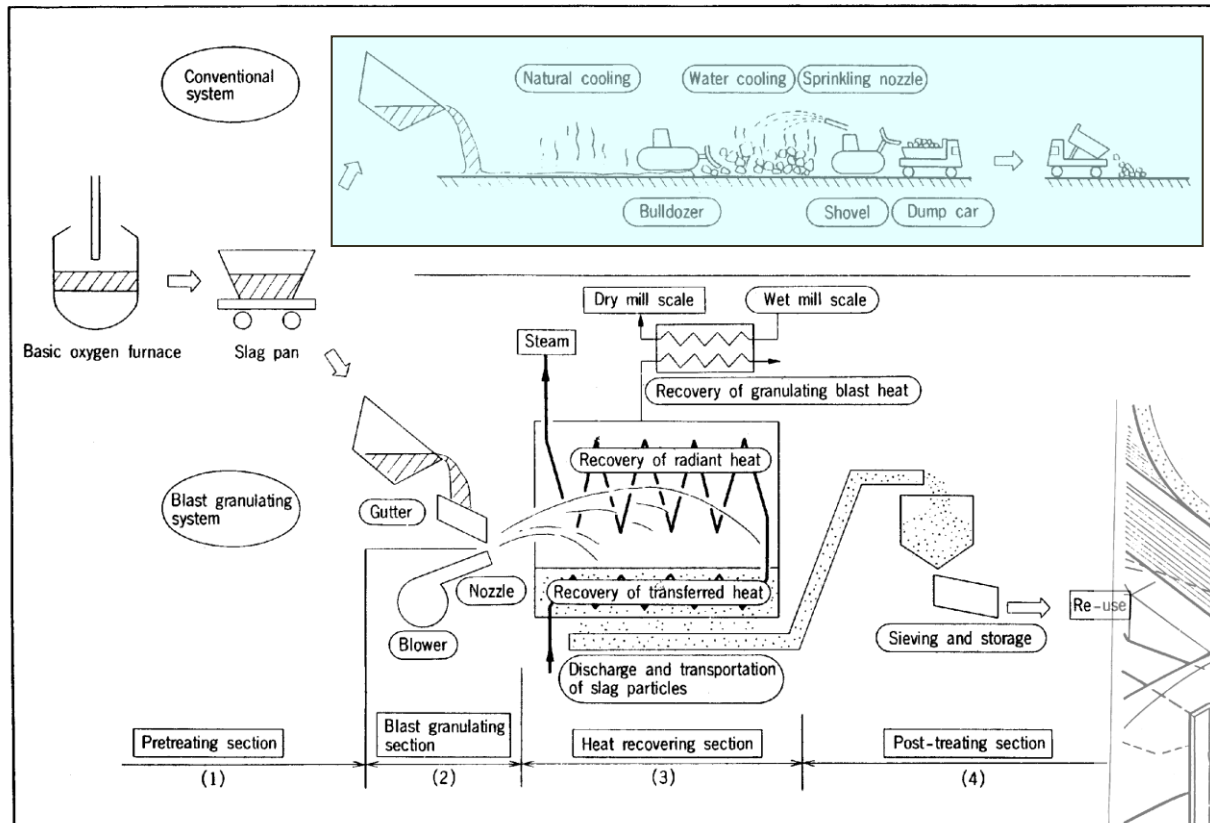
ASO Siderurgica, Italy



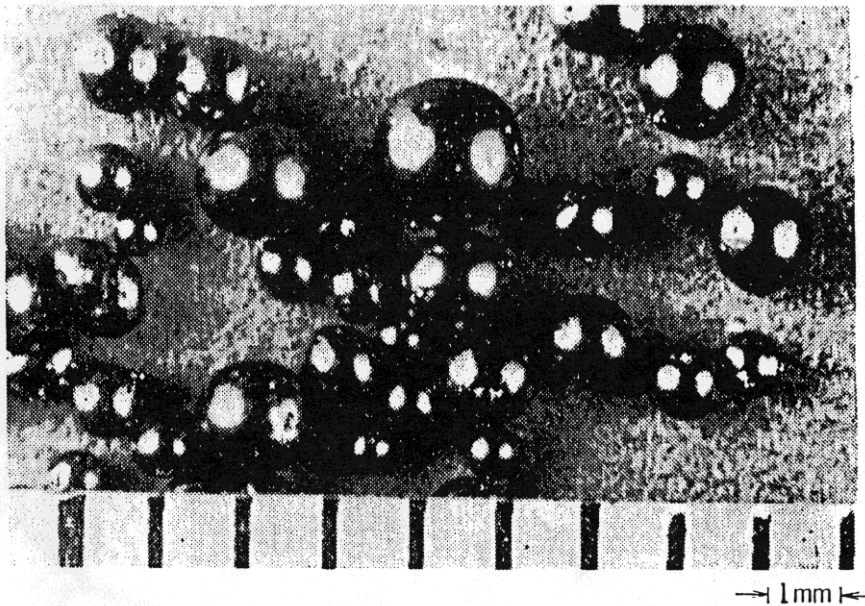




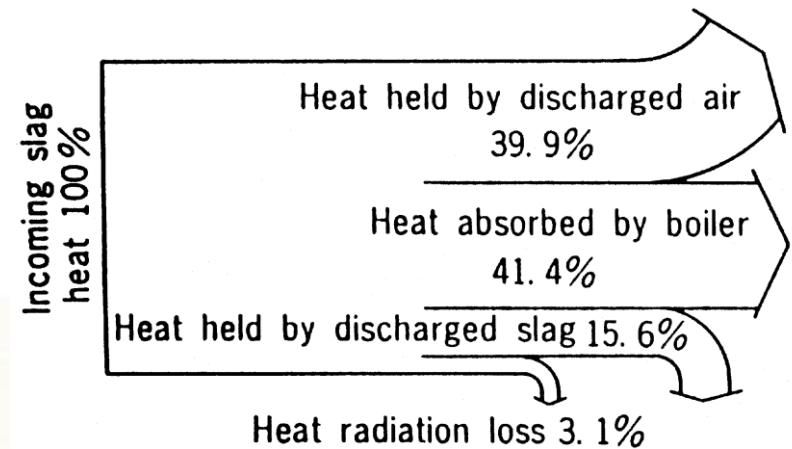
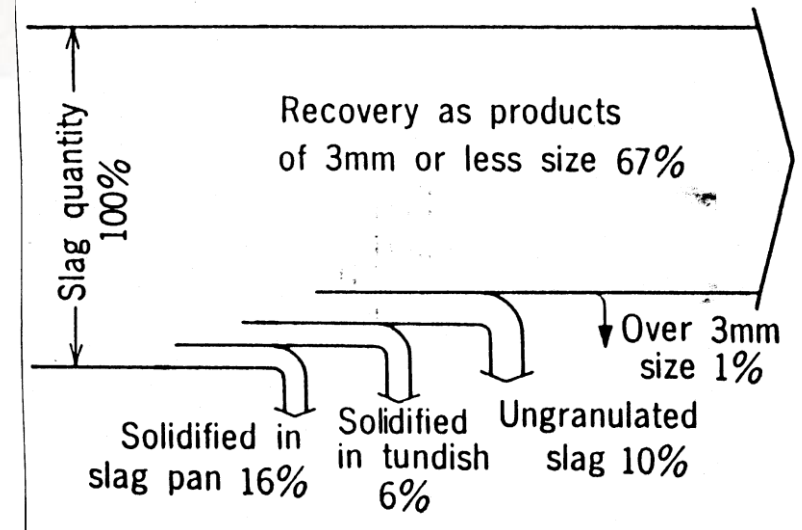
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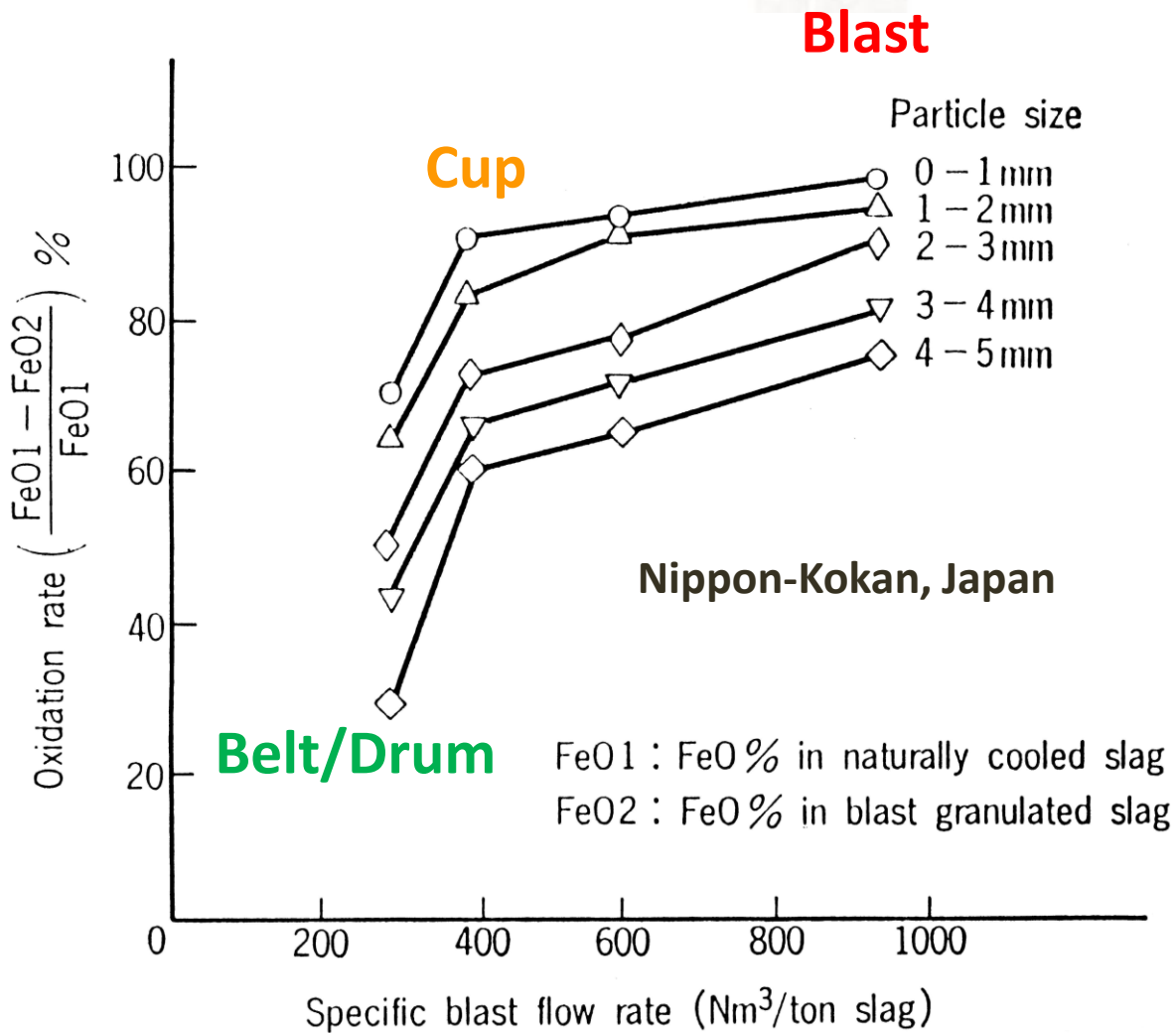


Nippon-Kokan, Japan



Nippon-Kokan, Japan





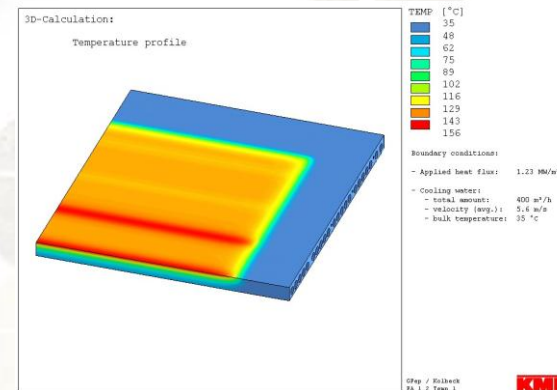
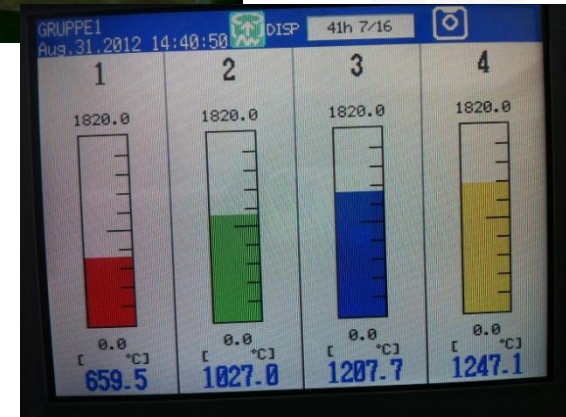
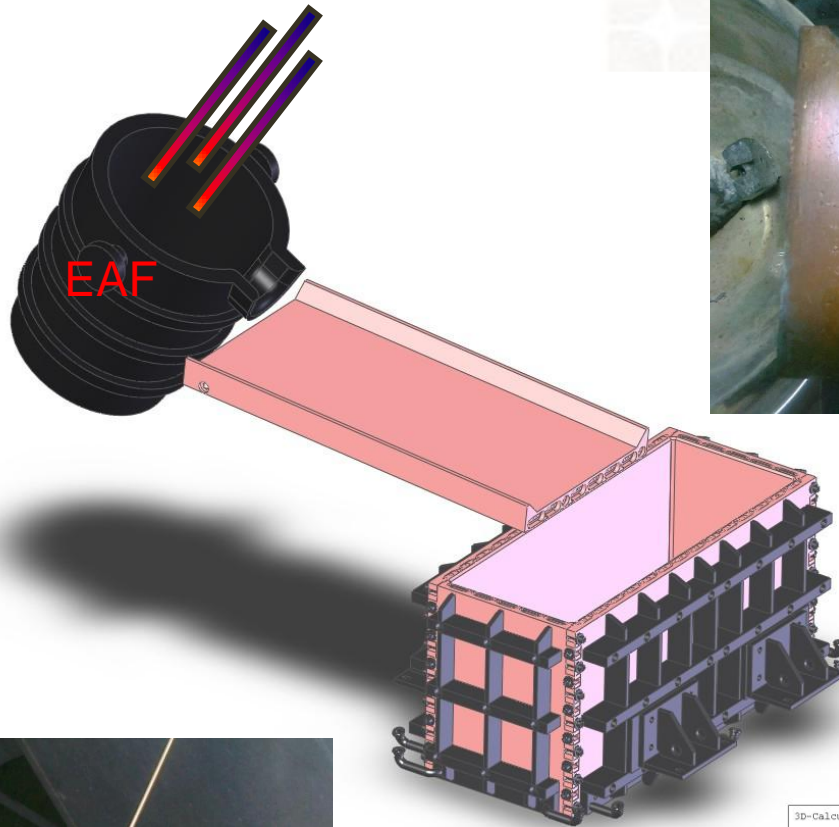


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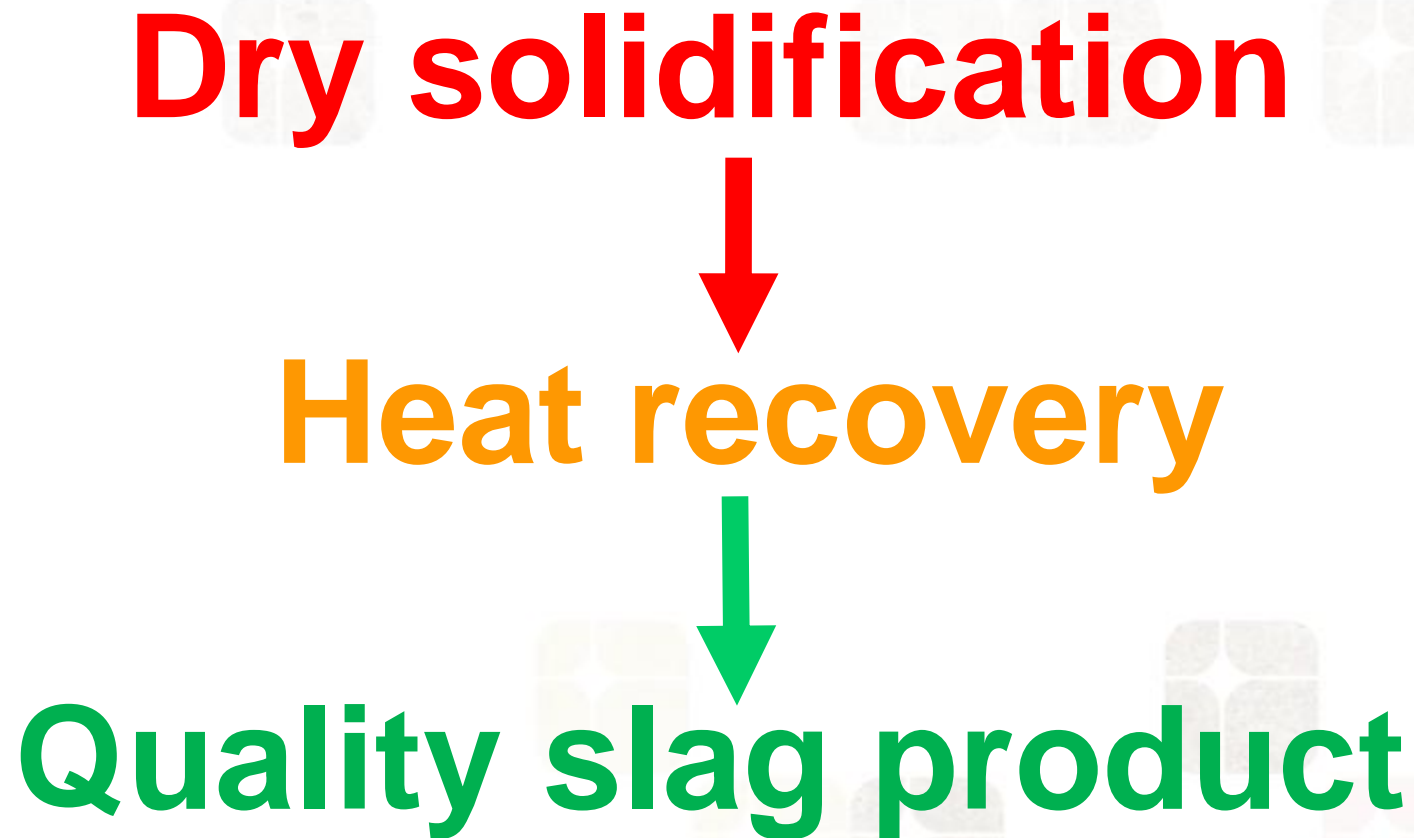


Georgsmarienhütte
GmbH · seit 1856 · Edelstahl

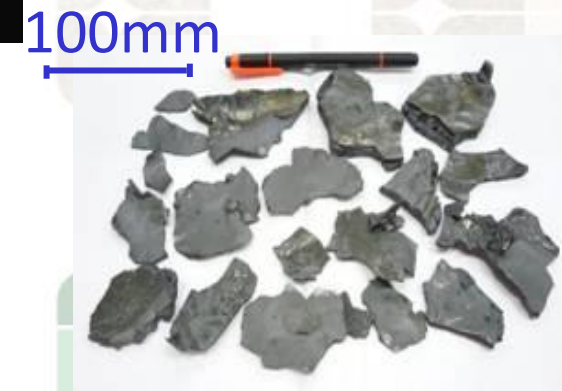
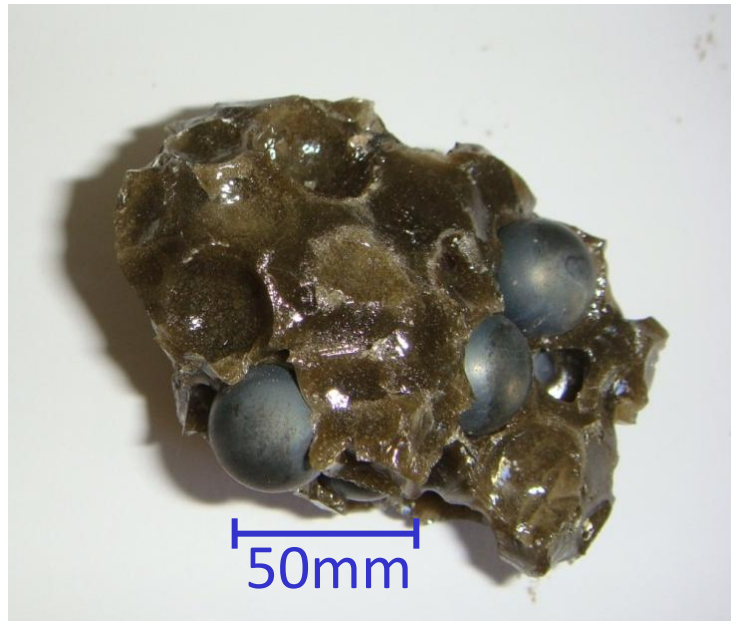
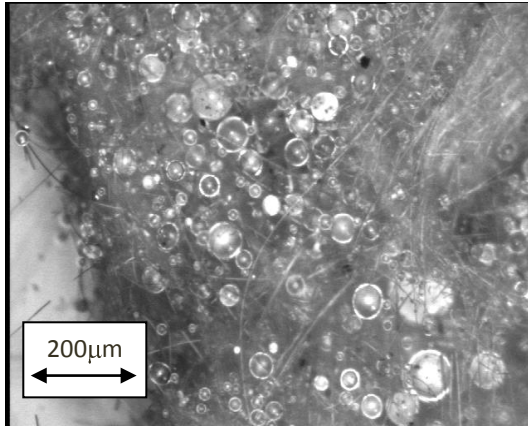
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Product Quality



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Acknowledgements

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on the basis of a decision
by the German Bundestag



Announcement 7th European Slag Conference

We are pleased to announce the 7th European Slag Conference. It will be held in IJmuiden, the Netherlands from

Wednesday, 9th October, till Friday, 11th October 2013.

The organizers are Tata Steel, Harsco Metals Holland and Pelt & Hooykaas.

The title of the conference will be:

"Don't waste your secondary resources".

The Conference Centre of the Tata Steel Dudok Huis in Velsen Noord, where the European Slag Conference will be held, is only 20 miles away from Amsterdam and Schiphol Airport.

The Conference will start on 9th October with a warm welcome in the Dudok Huis and presentations of papers. The second day will continue with the presentation of papers, and the closure of this day will be a forum discussion. In the evening a Gala Dinner will be given. On the last day, Friday 11th October, we will take you for a site visit at Tata Steel, Harsco and Pelt & Hooykaas.

The fee will be € 450 including:

- Conference location
- Beverages at the Conference site
- Lunch
- Transport from the hotel to the Conference site and vice versa
- Papers of the presentations
- Site visit on Friday