



TREATMENT OF BOTTOM ASH FROM INCINERATION

- Bottom ash is a residue from incineration processes in power stations or waste incineration plants. Slags from incinerations are of major importance for the protection of the environment.



BOTTOM ASH TREATMENT

Waste incineration produces about 250 - 350 kg of slag from every ton of waste. This is - like the waste itself - of extremely different composition as far as the content of minerals, iron scrap, water and heavy metals is concerned.

Prior to a re-use the bottom ash must be prepared and stored such that it complies with the quality requirement for the later use. In most cases the slag is transported from the incineration to the treatment plant via conveying equipment. There, it is pre-stored for an integration of air CO₂ for at least one day. Then, the slag is sieved and crushed. Iron scrap and non-ferrous metals such as aluminium, copper and brass are separated from the slag and used as raw materials in metallurgical works. Residues not burned are treated and removed in a classifier.

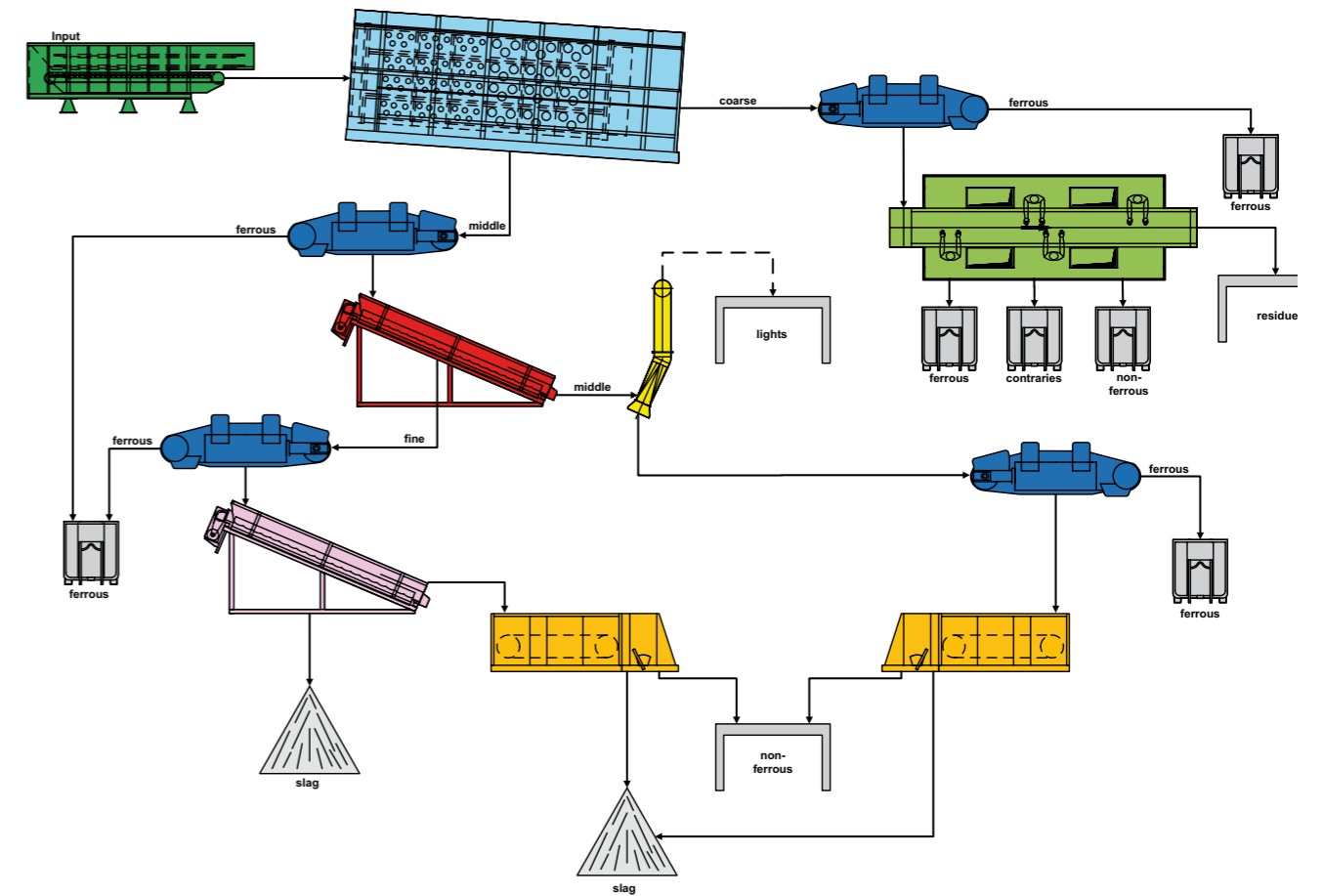
Physical and chemical processes proceed in bottom ash simultaneously. Therefore, it is important that they be taken into account according to the technical guidelines and stored over a certain period of time. This product cannot be used as a secondary product or building material in road construction

unless the specified requirements are complied with. Time and technology work for the bottom ash quality.



EXAMPLE: TREATMENT PLANT OF BOTTOM ASH

INPUT:
120 MG/H



- ▲ Apron conveyor
- ▲ Overbelt magnet
- ▲ Flip-flop screen (coarse)
- ▲ Non-ferrous compactor
- ▲ Trommel screen
- ▲ Picking cabin
- ▲ Air knife
- ▲ Flip-flop screen (fine)



SOME REFERENCES

TREATMENT PLANTS FOR BOTTOM ASH FROM THERMAL WASTE TREATMENT

BOTTOM ASH TREATMENT

MANNHEIM

Site	Mannheim, Germany
Plant	Mobile bottom ash treatment
Throughput	0-8 mm = 55 Mg/h 8-75 mm = 40 Mg/h
Customer	Remex

BOTTOM ASH TREATMENT MVR

RUGENBERGER DAMM, HAMBURG

Site	Hamburg, Germany
Plant	Bottom ash treatment with the extraction of recyclable material and preparation of the slag as building material
Throughput	50 Mg/h
Customer	MVR Müllverwertung Rugenberger Damm, Hamburg

SCHLACKENAUFBEREITUNG

ILLINGEN

Site	Illingen, Germany
Plant	Bottom ash treatment with the extraction of recyclable material and preparation of the slag as building material
Throughput	180.000 Mg/a
Customer	Sotec, Saarbrücken

SCHLACKENAUFBEREITUNG

HALLE

Site	Halle, Germany
Plant	Bottom ash treatment with the extraction of recyclable material and preparation of the slag as building material
Throughput	120 Mg/h
Customer	Baumann & Burmeister GmbH (Strabag)

BOTTOM ASH TREATMENT

WEISWEILER

Site	Weisweiler, Germany
Plant	Bottom ash treatment with the extraction of recyclable material and preparation of the slag as building material
Throughput	100.000 Mg/a
Customer	TRAWA, Aachen

BOTTOM ASH TREATMENT

KÖLN-NIEHL

Site	Köln-Niehl, Germany
Plant	Bottom ash treatment with the extraction of recyclable material and preparation of the slag as building material
Throughput	130.000 Mg/a
Customer	AVG Abfallentsorgungs- und Verwertungsgesellschaft Köln mbH, Köln

