

- HEAT RECOVERY
- BIOMASS
- PRIMARY FUELS
- SOLID RESIDUES
- LIQUID & GASEOUS RESIDUES

RDF PLANT ROMONTA AMSDORF, GERMANY



RDF PLANT ROMONTA, AMSDORF, GERMANY



Number of Lines	2
Fuel	Domestic/ Industrial refuse
Heating Value (min./max./nom.)	11.0 / 15.0 / 13.0 MJ/kg
Fuel Throughput (min./max./nom.)	4.0 / 8.53 / 7.75 t/h
Rated Thermal Input each	28 MW
Steam Capacity each	30 t/h
Steam Pressure	40 bar
Steam Temperature	400 °C
Feed Water Temperature	105 °C
Flue-Gas Flow each	53,950 m ³ i. N./h
Exhaust-Gas Temperature	180 - 210 °C
Operating Approval	17. Federal German Pollution Control Act
Year of Commissioning	2004 / 2009

THE TASK

In order to realise a low-cost energy generation, the existing power plant was to be enlarged by a waste incineration system which had to be integrated into the existing power-plant building. Not only had the procedural criteria in respect of the new disposal unit to be taken into account, but also the available local site conditions. The installation of a second combustion line was already envisioned in the planning of the first line. After the first line had been successfully in operation for around five years, Romonta Beteiligungs GmbH placed the second order with Standardkessel Baumgarte.

THE SOLUTION

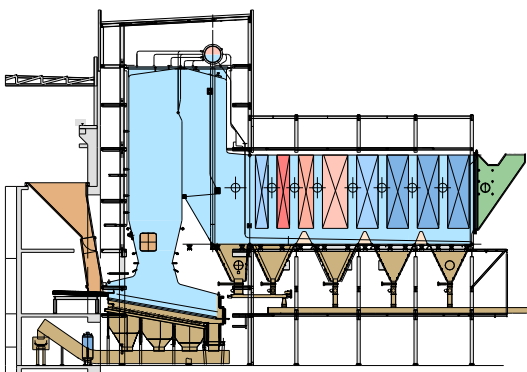
The general project requirements could be met by realising a boiler concept designed as a steam generator with a downstream radiation pass and a lowered tail end. The combustion system was provided in form of a pusher-type grate with a water-cooled grate lining and a very flat ash removal system, so that in consideration of the necessary furnace-area geometry, the roof of the existing boiler house could be completely maintained. The complete tail end protrudes from the building and is designed as an outdoor plant.

SCOPE OF SUPPLY

- Combustion Grate System with Air System and SNCR
- Ignition and Auxilliary Firing System
- Slag Removal Facilities
- Main-Steam Generator with Fittings and Heating-Surface Cleaning Plant
- Refractory Lining
- Thermal and Sound Insulation
- Ash and Residue Systems
- Electro-, Measuring-, and Control Technology,
- Steel Structure with Stairs and Platforms

ENGINEERING SERVICES

- Engineering incl. Approval and Official Engineering
- Erection and Commissioning
- Trial Run



Example