

HOTWORK

COMBUSTION TECHNOLOGY

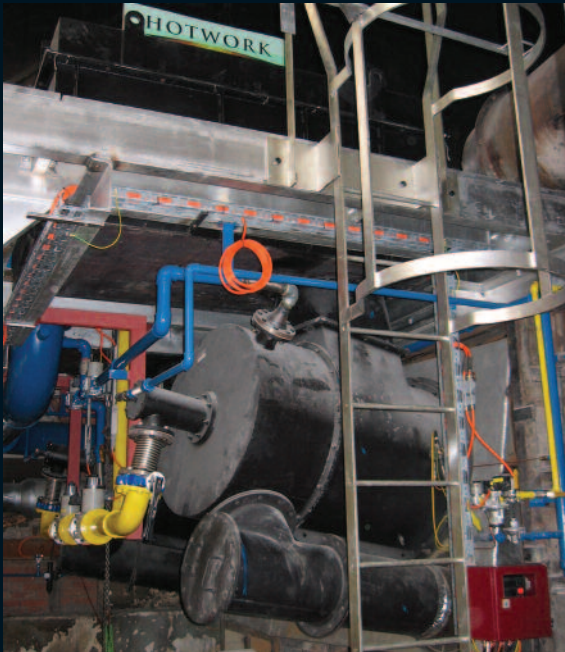
CASE STUDY

CUSTOMER: Aluminium Rheinfelden GmbH, Rheinfelden-Semis, Germany

TYPE OF PLANT: Static aluminium melting furnace

SCOPE: Turnkey modernisation of a gas-fired melting furnace to an Ultra Low NO_x Regenerative Burner System

COMMISSIONED: August 2004



E-Jet Ultra Low NO_x Regenerative Burners operating in flameless mode

FEATURES:

CAPACITY: 25 tonnes
MELT RATE: 6.5 tonnes/hour
CHARGE: 60% ingots
40% oily scrap
BURNERS: 1 pair of EJ40 E-Jet Ultra Low NO_x Regenerative Burners rated at 4000 kW
FUEL: Natural Gas

BENEFITS:

- Specific energy consumption < 530 kWh/t
- High specific melt rate
- Average NO_x = 233 mg/Nm³ @ 3% O₂
- Compact regenerative system installed in a tight space

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