METIX

SMS group

Revolutionising pilot scale smelting

The containerised smelter concept gives users direct control over pilot-scale campaigns, enabling the de-risking of new processes under industrial conditions while providing the flexibility to conduct trials whenever and wherever required.

Mobile design enables testing where you are

Multiple test campaigns on one platform

Configurable setup for specific objectives

Baseline data generation for project development

CONTAINERISED SMELTER FEATURES

- Raw material feeding
- Furnace system
- Electrode regulation
- DC power supply
- Cooling water
- Gas extraction
- Baghouse dust collection
- PLC control & automation
- Container & access infrastructure
- Process monitoring & data acquisition

Passion for Metals

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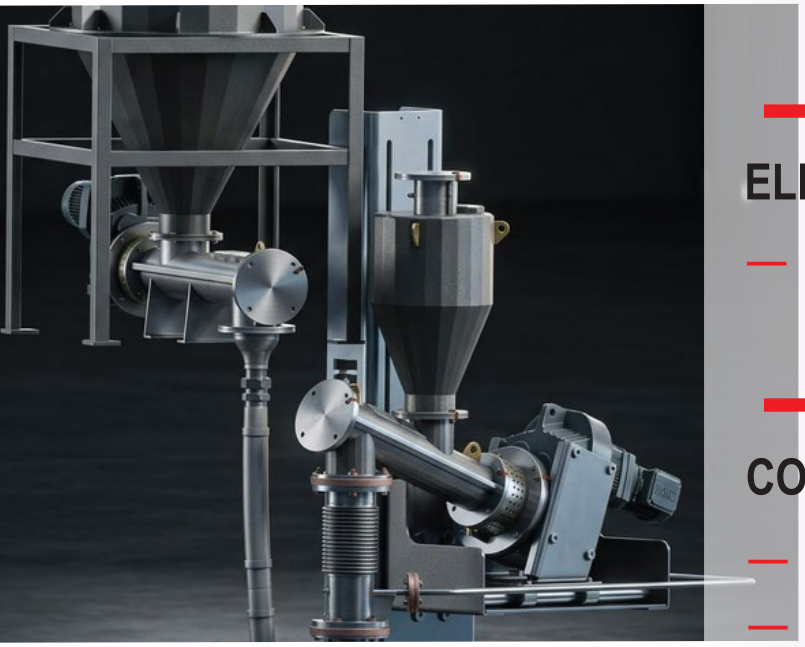
FURNACE SYSTEM

- Robust shell & refractory lining
- Automated electrode assembly & hydraulic regulation

RAW MATERIAL FEEDING

- Screw feeder with VSD control
- Smart power feedback for consistent feed rates



ELECTRICAL POWER

- High-capacity transformer & rectifier for power quality & monitoring

CONTROL & AUTOMATION

- PLC with HMI interface
- Integrated panels for seamless operation

COOLING WATER

- Evaporative system with duty pumps
- Efficient shell cooling water distribution

OFF-GAS & DUST HANDLING

- Extraction & baghouse filtration

Get in touch to find out more information on our technical capabilities in pyrometallurgical technologies

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