



# **EAF AC** PROVEN TECHNOLOGY -HIGH PRODUCTIVITY

Based on decades of experience in designing electric arc furnaces, Primetals Technologies offers steel producers a broad range of powerful options for high-performance electric steelmaking.

This includes EAFs of all sizes and types, twin-shell furnaces, and shaft furnaces in addition to all related processes, automation, and environmental systems. The AC EAF from Primetals Technologies is the ideal melting unit for the production of all types of steel, from standard carbon grades to high-alloyed and stainless steel grades. Its overall furnace performance can be further enhanced with the latest oxygen and carbon injection technologies. Twinshell EAFs are a highly attractive solution for increasing a plant's productivity, especially when the lifting and loading capacities of existing cranes and other infrastructural limitations do not allow an increase in the tapping weight. Poweroff times can be reduced to less than three minutes.

## FEATURES

- Gantry design for self-supporting furnace roof
- Prismatic roller guide system for electrode masts
- High-current conducting electrode arms in copper-clad box design
- State-of-the-art electrode control system
- Split-shell design
- Copper or combi-panels with high-speed cooling water flow
- Oxygen and carbon injection
- All bottom tapping systems (EBT, EO-EBT, RBT, OBT)
- Special hot-metal charging facilities
- Continuous DRI/HBI feeding systems
- DRI fines and dust injection



Hadeed, Saudi Arabia, 150-t AC EAF

#### SELECTED REFERENCES

- Hadeed Saudi Iron and Steel Company, Saudi Arabia
- NSIF National Steel Iron Factory Company Limited, Saudi Arabia
- North Star Steel, USA
- MMK Magnitogorsk Iron and Steel Works, Russia
- Revda Maxi Group, Russia
- Dofasco Inc., Canada
- Chengdu Iron and Steel Company Limited, China
- EVRAZ Rocky Mountain Steel, USA

### MAIN BENEFITS

- Increased productivity due to shortest melting and idle times

- Low tapping temperatures and minimum slag

#### FOR TWIN-SHELL EAFS

- Parallel operational activities on separate EAF

**Primetals Technologies Germany GmbH** A joint venture of Mitsubishi Heavy Industries and partners

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