

COMPLETE SOLUTIONS FOR STEEL MELTING SHOP

We design, manufacture and supply a wide range of heavy duty fabricated equipment for steel melting shops. Our equipment are built to withstand extreme conditions, ensure operational safety and deliver maximum productivity.



ROBUST & RELIABLE

Built with heavy duty fabrication for long life.



HIGH PERFORMANCE

Engineered for efficiency and consistent performance.



PRECISE ENGINEERING

Dimensional accuracy and quality workmanship.



SAFE OPERATION

Designed with safety in mind for operators and environment.



CUSTOM BUILT

Tailor made solutions as per customer requirements.



AFTER SALES SUPPORT

Complete support from concept to commissioning.

OUR CAPABILITIES

- In-house design & engineering
- Heavy fabrication with tested welding procedures
- Machining & assembly
- Dimensional inspection & quality assurance
- Shot blasting & protective painting
- Timely delivery & installation support

Standards Followed:

IS, ASME, AWS, ISO & Customer Specifications

APPLICATION

- Induction Furnace
- Electric Arc Furnace
- Ladle Refining Furnace
- Vacuum Degassing Unit
- Secondary Metallurgy
- Casting & Tapping
- Ancillary Operations



QUALITY ASSURED



BUILT TO LAST



SAFETY FIRST



CUSTOMER FOCUSED

OUR RANGE OF FABRICATED EQUIPMENTS

ELECTRIC ARC FURNACE (EAF) SHELL



Heavy fabricated shell fabricated with structural steel plates.

LADLE REFINING FURNACE (LRF)



Robust structure for efficient refining and alloying operations.

INDUCTION FURNACE (IF) SHELL



Fabricated steel shell for safe and efficient melting.

VACUUM DEGASSING UNIT (VD)



Ensures removal of gases and inclusions for better steel quality.

TUNDISH



Designed for smooth flow control and temperature maintenance.

LADLE



Fabricated for safe transfer of molten steel.

FURNACE ROOF & DOOR



Precision fabricated for perfect fit and heat resistance.

WATER COOLED PANELS



Enhances furnace life and ensures structural integrity.

OFFGAS DUCT



Rugged design for efficient offgas evacuation.

BAG FILTER HOUSING



Fabricated for effective dust collection and emission control.

SKIRT & PEDESTAL



Provides stable support and alignment for furnace.

TAPPING SPOUT



Safe and controlled tapping of molten steel.

SLAG DUMPING BUCKET



Hydraulic operated for safe slag handling.

CHARGING BUCKET



Heavy duty bucket for charging scrap and alloys.

SCRAP CHARGING DOOR



Reliable sealing and smooth operation.

ELECTRODE LIFTING COLUMN



Heavy fabricated for accurate electrode movement.

HYDRAULIC CYLINDER SUPPORT



Sturdy support structure for hydraulic assemblies.

FURNACE TILT MECHANISM



Smooth tilting for safe pouring operations.

MATERIALS & CONSTRUCTION

- Mild Steel (IS 2062)
- Stainless Steel (SS 304 / SS 316)
- Wear Resistant Steel (AR Plates)
- Heat Resistant Steel
- All welds as per AWS / IS Standards
- NDT Tested Welds (UT / RT / MT / PT)



QUALITY ASSURANCE

- Raw material inspection
- In-process quality checks
- Dimensional accuracy
- Weld quality inspection
- Hydro / Pneumatic testing (if applicable)
- Final inspection before dispatch



WHY CHOOSE MEC?

- Decades of experience in steel plant equipment
- State-of-the-art manufacturing facility
- Skilled engineers & qualified workforce
- Custom engineered solutions
- Commitment to quality, safety & on-time delivery



OUR COMMITMENT

To deliver world-class fabrication equipment that enhances productivity, ensures safety and adds value to your steelmaking operations.



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ENGINEERING EXCELLENCE.
MELTING POSSIBILITIES.