

Umecc[®]

Forging Strength, Shaping the Future



Table of Contents



Corporate Intro.....	1
Power Supply & Electric Systems	11
Material Handling Equipment & Parts.....	15
Mining Equipment & Parts.....	18
Sinter Plant Equipment & Parts.....	24
Coke Oven Equipment & Parts	26
Iron Making Equipment & Parts	30
Steel Making Equipment & Parts	34
Caster Equipment & Parts	41
Re-Heat & Heat Treatment Furnaces.....	49
Rolling Mill Equipment & Parts.....	51
Castings.....	60
Misc. Machine Items	61

UMECC stands for: Metallurgical Equipment Company of Cincinnati

- **Founded in 1998 as MECC-USA**
- **Renamed to UMECC in 2008**
- **USA Ownership since 2024**
- **Worldwide Operations:**
 - USA - UMECC Group Headquarters
 - Canada - UMECC (Canada) Inc.
 - Mexico - UMECC (Mexico)
 - Europe - UMECC Europe GmbH
 - China - UMECC (Beijing) Equipment



UMECC CEO Adam Salmen

Our offer to you:

World's Best Technology

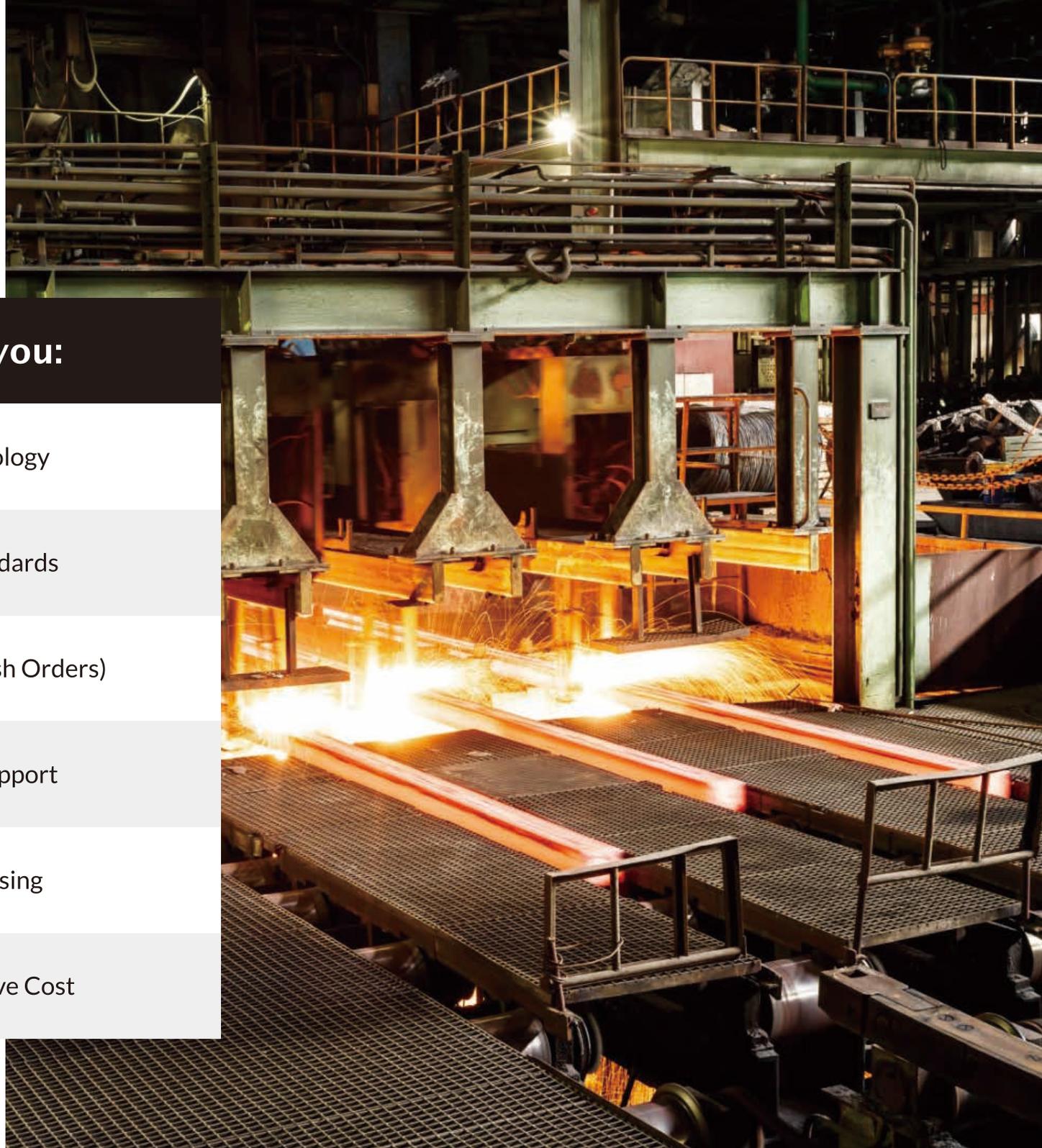
Highest Quality Standards

Short Lead-time (And Rush Orders)

Local Engineering Support

Domestic Warehousing

... At a Very Competitive Cost



Core Elements of our Services



Meet UMG: The UMECC Manufacturing Group

A global network of over 80 manufacturing partners:

- ... Manufacturing UMECC branded products
- ... Through exclusive manufacturing relationships
- ... All are ISO Certified
- ... And are vetted through our quality control program

How we deliver quality

Vendor qualification program

Quality plans and targeted improvement initiatives

Random audit, in-process & ex-works inspection

Key engineering requirements translated in local language

Manuals, commissioning and training assistance

Performance tracking and continuous improvement

UMECC's Global Footprint



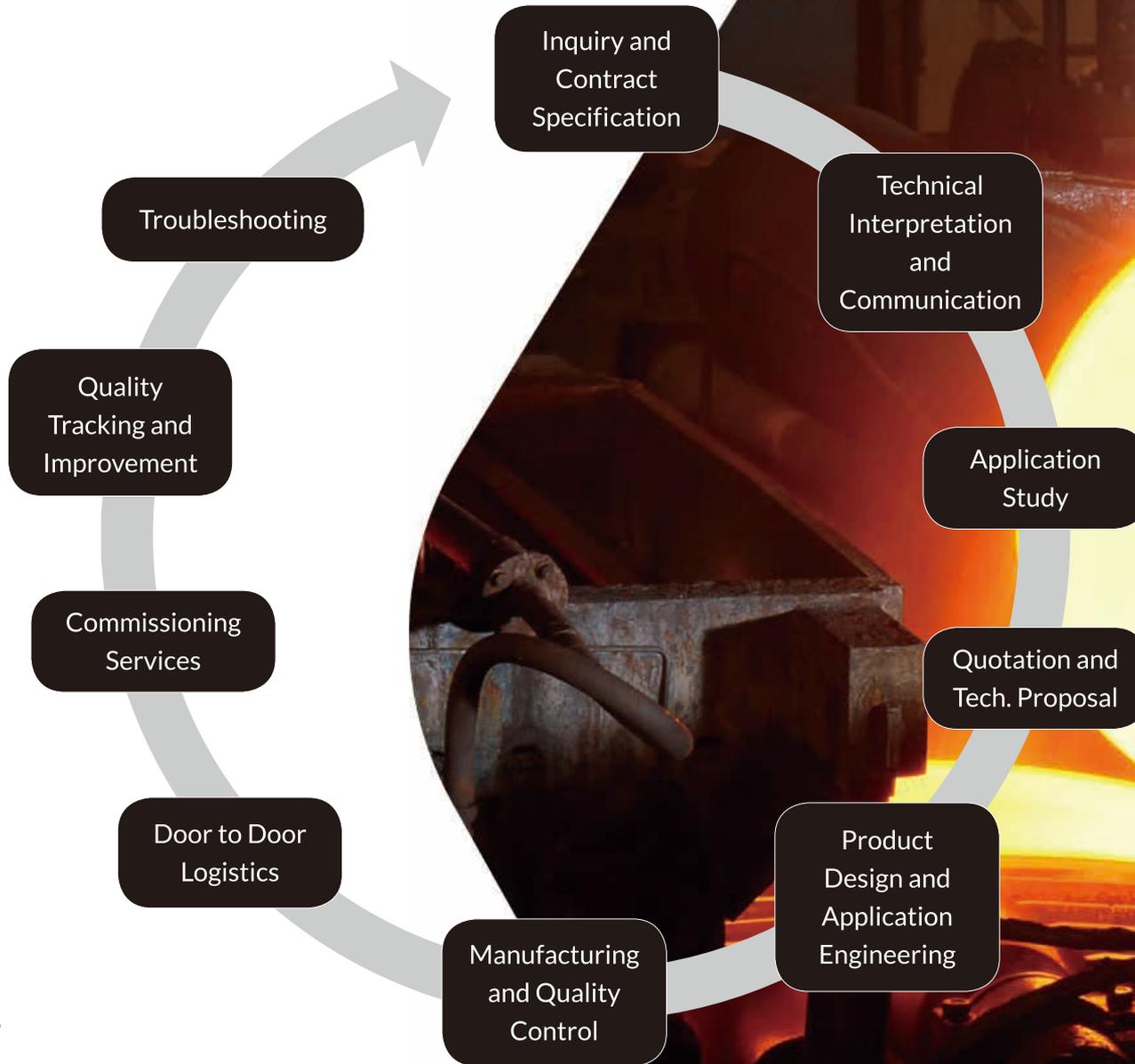
Quality Control System



Total Quality Control Covering All Steps

- Manufacturer Qualification and Audit
- Inquiry Specification Review and Clarification
- Quotation Review and Clarification
- Application Study
- Order Review and Acknowledgement
- Technical Specification and Engineering
- Kick-off Meeting with Manufacturer and Customer
- Review and Approval of Manufacturer's Process Design & Shop DWG
- Quality Plan, Documentation Plan and Supervision Plan
- In-process Inspection
- On-field Witness of Critical Tests and Inspection
- Final inspection before ex-works delivery
- Performance Tracking and Feedback for Continuous Improvement

This is How We Roll- Our Business Process



Serving More Than 80 Customers



Quality Control System

ISO 9001:2008 certified

UMECC and its Manufacturer Group members, regardless how big or small, are all ISO certified.

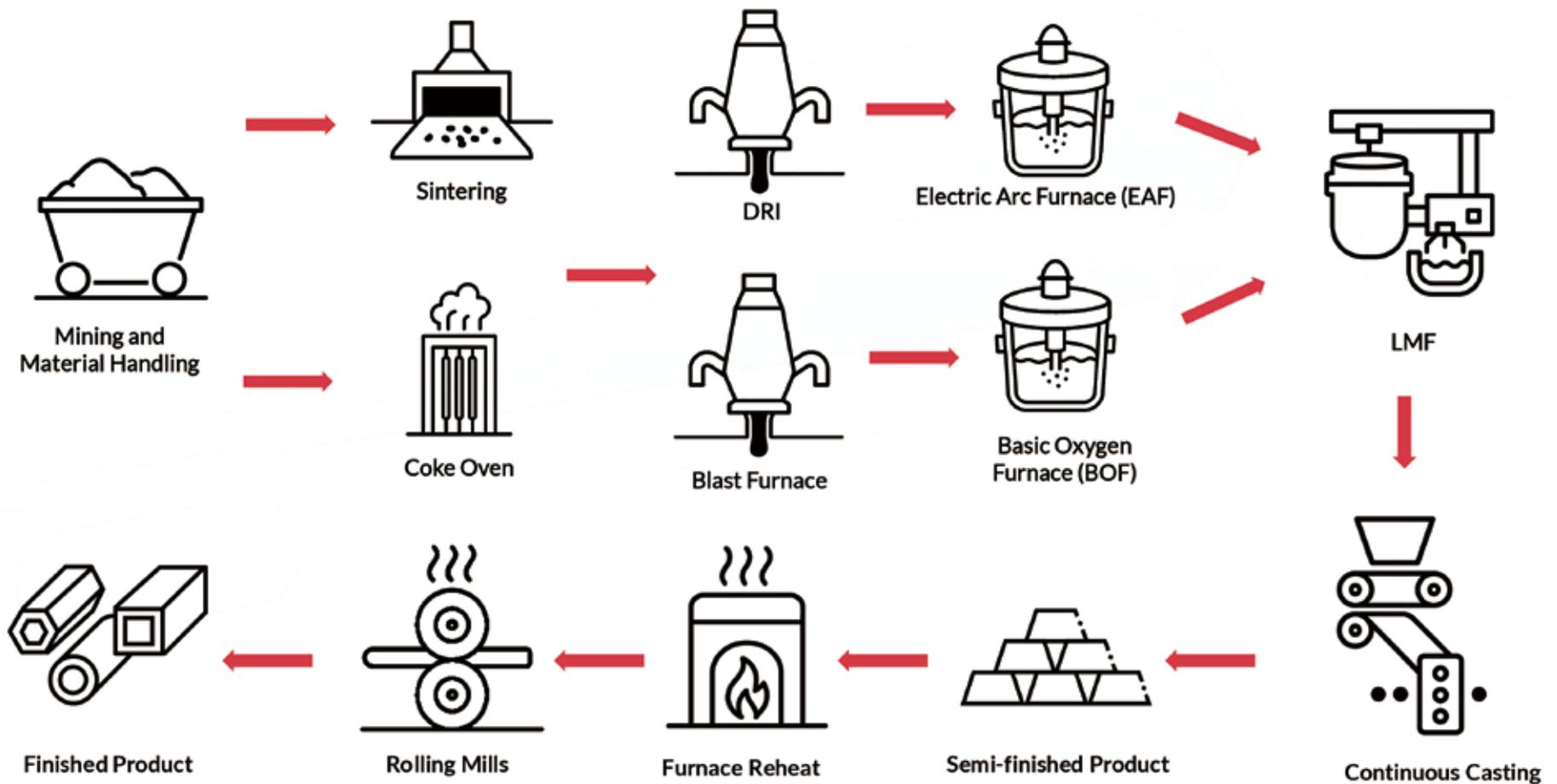


UMECC Logistics



Scope of Supply

UMECC delivers equipment and spares for around **70% of the steel manufacturing process**, from mining down to long and flat products.



Power Supply & Electric Systems



Power Supply Equipment



500kV Power Transformer



110kV Furnace Transformer



10-20kV Oil-immersed Distribution Transformer



10-20kV Amorphous Alloy Distribution Transformer



110kV Railway Traction Transformer



110kV Rectifier Transformer



500kV Shunt Reactor



13-35kV Dry-type Power Transformer

Power Supply Equipment



Mobile Substations



Mobile Substations



Power Supply Cabinet



Power Compensation Cabinet



Switch Gears



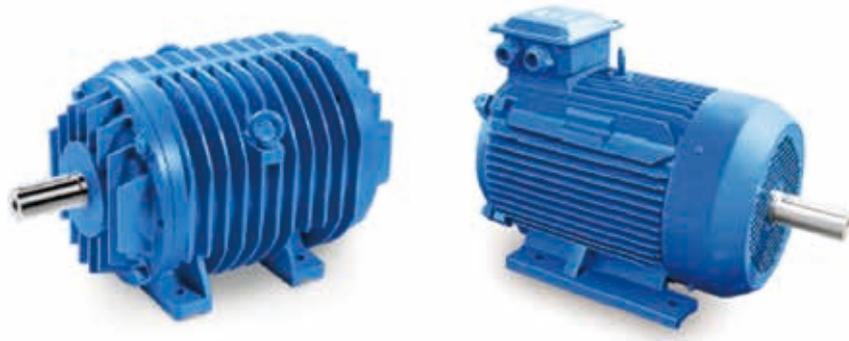
Prefabricated Substations



AC Distribution Cabinets

Gearmotors and Motors

Three-phase Asynchronous Motors



Rate Power: 0.25-500kW
Frame Size: 71 - 400
Poles: 2P, 4P, 6P, 8P
Protection Level: IP55
Insulation Class: F
Cooling Method: IC411
Duty: S1
Efficiency Class: IE2



Paralell Axis Gearmotors



Helical-Worm Gearmotor



Coaxial Gearmotors

Material Handling Equipment & Parts



Material Handling Equipment

Metallurgical Cranes and Parts



Rope Drum



Slab Tong Assembly



Crane Bogies



Crane Wheels



Tundish Lifting Beam



Hoist Pulley Block

Material Handling Equipment

Transfer Cars



220ton Slab Transfer Car



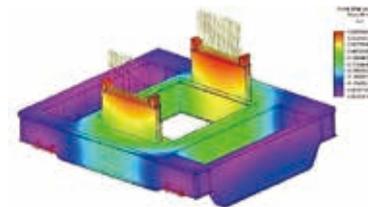
320ton Ladle Car



RH Maintenance Car



Iron Ladle Transfer Car



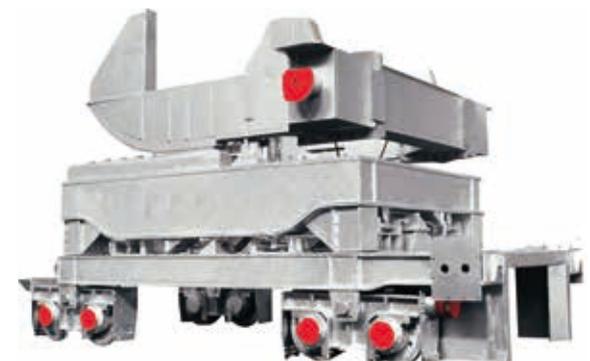
FEA Modeling



Torpedo Vessel Car



BOF Bottom Maintenance Car



Ladle Tilting Car

Mining Equipment & Parts



Mining Equipment

Stacker & Reclaimer



Stacker & Reclaimer & Parts

Apron Feeder



Belt Conveyor



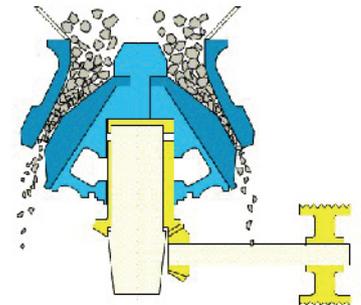
Belt Conveyor consumables

Mining Equipment

Primary Crushing Equip.



Jaw Crusher



Gyratory Crusher

Secondary Crushing Equip.



Gyratory Crusher



Double-toothed Roll Crusher



Mining Equipment

Fine Grinding Equip.



Ball Mill



Semi-autogenous Mill



Tower Mill



Vertical Mill



Roll-disc Type Coal Mill



HPGR – High Pressure Grinding Roll



Ultra-fine Ball Mill

Mining Equipment

Vibration Screen



Complex frequency vibrating screen



Large double axis circular vibrating screen



Sub circular vibrating screen



Efficient heavy-duty vibrating screen



Sand Dewatering vibrating screen

Slurry Pumps



Slurry Pumps Available in Gravel, Centrifugal, Cantilevered, Vertical, Horizontal Types



Wear-resistant Slurry Pipes Made of Composite Steel

Rotary Kilns Equipment & Parts

Capabilities:

Complete Kiln: Dia. 1.2 - 6.9m x L48 - 145m

Riding Ring: Dia. 9.0m / 90 ton (max)

Girth Gear: Dia. 8.0m / 50 ton (max)



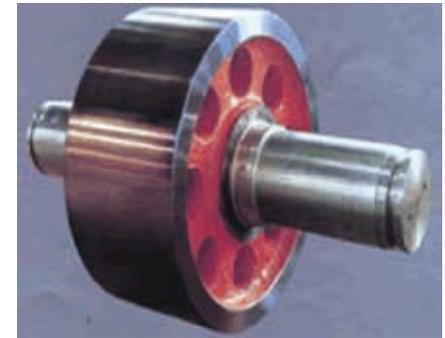
Girth Gear



Rotary Kiln



Riding Rings



Support Roller

Sinter Plant Equipment & Parts



Sinter Plant Equipment

We are capable of providing a complete sinter plant package including:
Sintering machine, waste heat recovery system and sinter desulfurization.

Capable of plant size: 60 – 450m²



Sinter Cars

–OR–

We can also provide you with
Sinter Plant equipment



Grate Bars

Coke Oven Equipment & Parts



Coking Plant Equipment & Parts

Design Capability:

Stamping-charge type: 5.5m, 4.3m, 3.8m, & 3.2m

Top-charge type: 7m, 6.5m, 6m, 5.5m, 4.3m

Design Capability:

Top-charge type: ~7.63m



Coking Plant Equip. & parts



Goose Neck Casting



Gas Main Valves



Door Jams



Inspection Hole Frame & Lid



Standpipe



Door Assemblies

Coke Quenching process

Complete CDQ package

Rotary seal valves | Rotary discharge valves | Nitrogen supply system
 Rotary and square coke bucket | Hot coke charging device | Haul motor car
 Coke transfer car



Coke Buckets & Transfer Car



N2 supply device



CDQ System



Rotary Seal Valve

Iron Making Equipment & Parts



Iron Making Equipment & Parts

Complete blast furnace package for a furnace up to 5,500 m³

- Bell or bell-free top charging equipment
- Cast iron staves copper staves
- Copper cooler plates & tuyeres
- Wear-resistant castings
- Valves
- Torpedo vessel & cars
- Iron ladle and transfer cars
- Iron casting machine



Iron Making Equip. & Parts



Copper Plates



Top Distribution Gear



Clay Gun Nozzle



Wear Rings



Copper Staves



Expansion Joints



Copper Tuyere



Cigar Cooler



Cast Iron Staves

Iron Making Equip. & Parts



Hot Blast Valves



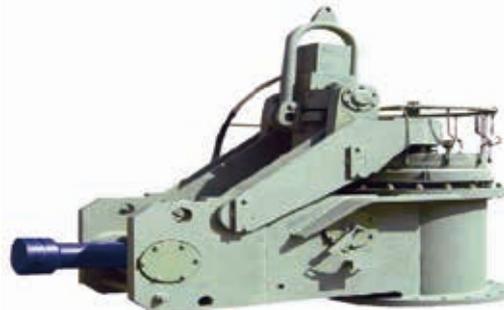
Blind Valves



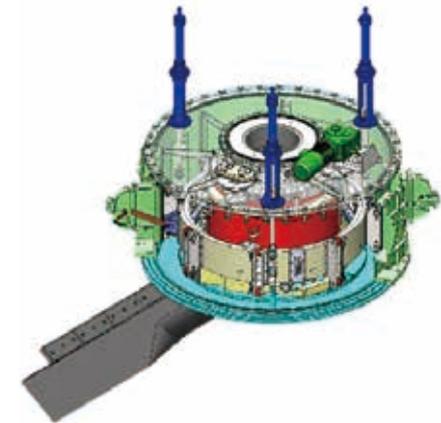
Iron Ladle Transfer Cars



Torpedo Vessel Cars



Top Bleeder Valve



Bell-less Top

Steelmaking Equipment & Parts



Steelmaking Equip. & Parts



EAF Upper Shell Assembly



BOF Tilting Drive Gear



BOF



RH Degasser



EAF Lower Shell

Steelmaking Equip. & Parts



BOF Hood Skirt



BOF Hood



Lower Hood
(Made of Spiral Overlaid Tubes)



Lower Hood
BOF Vessel



Plate-type BOF Hood

Steelmaking Equip. & Parts



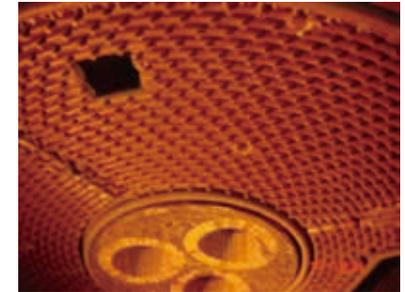
Water-cooled EAF Upper Shell Assembly
(Inside View)



Water-cooled EAF Upper Shell Assembly
(Outside View)



EAF Sidewall Panels
(steel & copper)



Water-cooled EAF Roof Assembly



180 Ton LMF Roof



175 Ton LMF Roof



300 Ton LMF Roof

Steelmaking Equip. & parts



285 Teeming Ladles



310 Ton Teeming Ladle

Umecc ADVANCED SLAG POT TECHNOLOGY

- Cutting Edge Design & Analysis
- Efficient Field Solutions
- REM Treated Steel

Tundish



500cuft slag pot

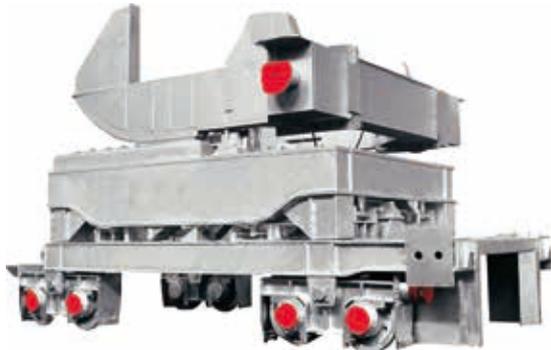


Scrap Bucket for 180-ton EAF

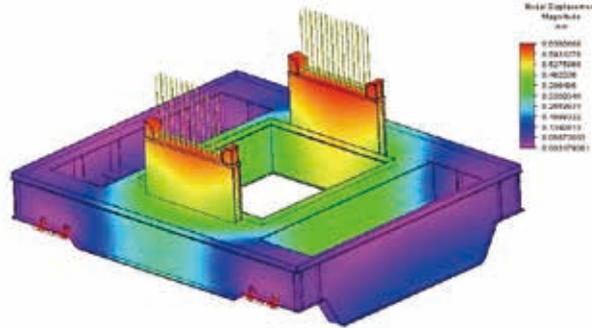


Steelmaking Equip. & parts

Transfer Cars



Ladle Tilting Car



FEM Modeling



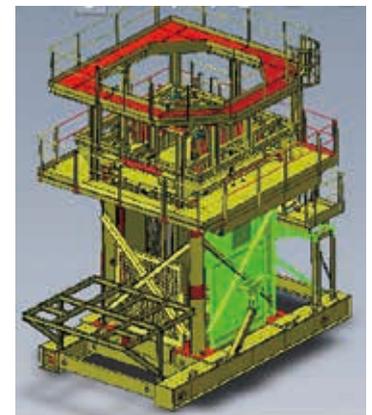
BOF Maintenance Car



320ton Ladle Car



220ton Slab Transfer Car



RH Maintenance Car

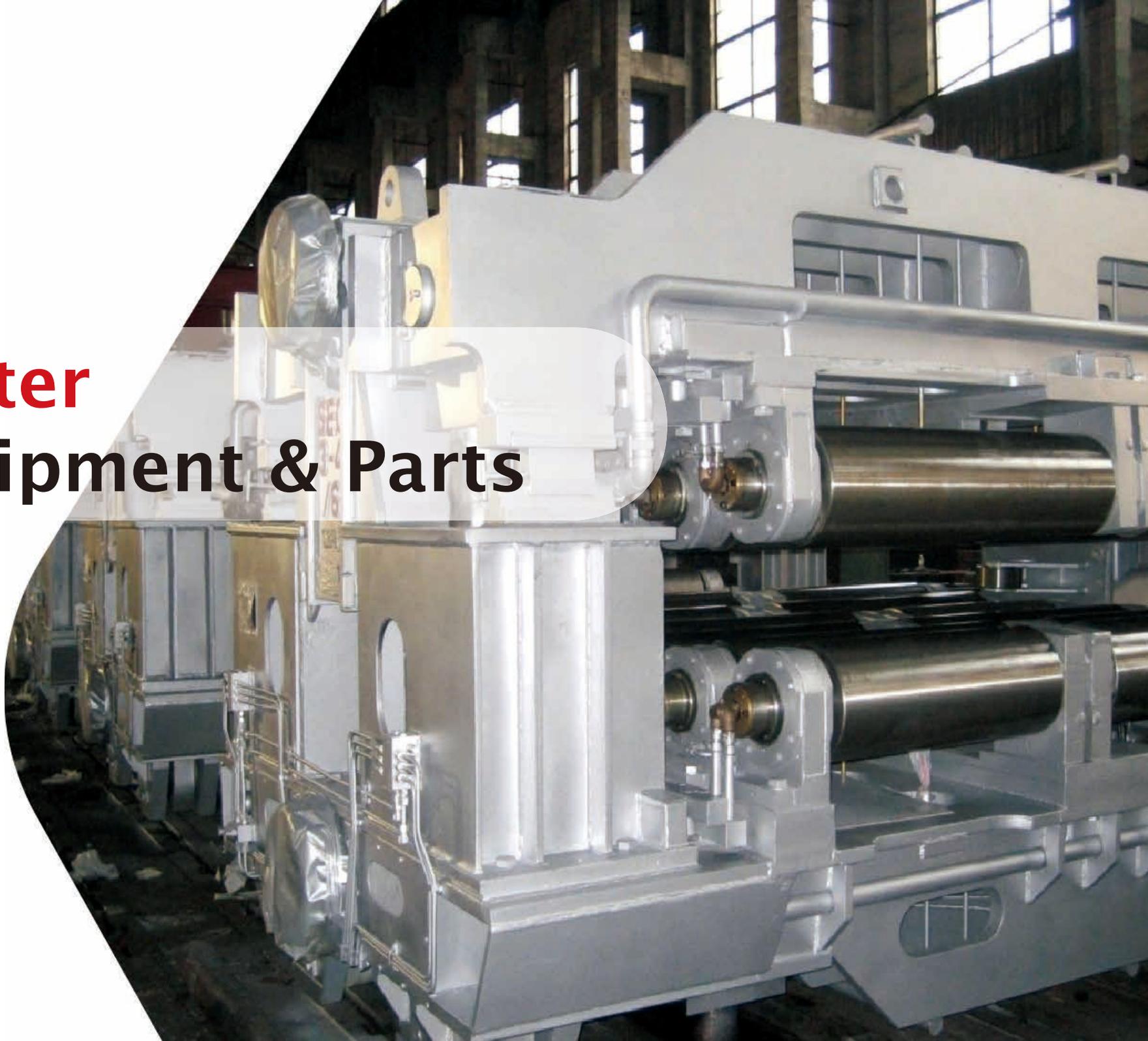
Steel Making Equipment & Parts

Flow Control Systems

- Ladle gates for all ladle sizes
- 50-120, 60-150, 70-200, 90-230, 110-250
- The lowest cost per ton
- State of the art design
- Custom-fit installation engineering
- Tube changers
- Complete refractory package



Caster **Equipment & Parts**



Caster Equipment

Complete Caster Segments



Complete Caster Segments

Caster Equipment

Hydraulic Power Unit for Tundish Wrecking Station



Tundish Wrecking Station

Valve Stand for Tundish Wrecking Station



Tundish Preparation Station

Caster Equipment

Segment Rollers



Bearing Housings



Bearing Housings



Segment Frames



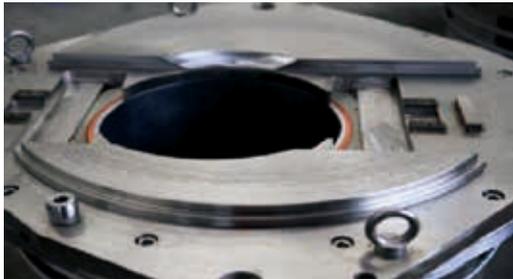
Segment Roll Shafts



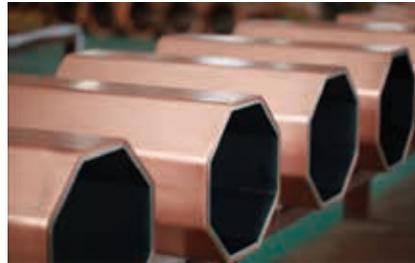
Segment Roll Sleeves

Caster Equipment

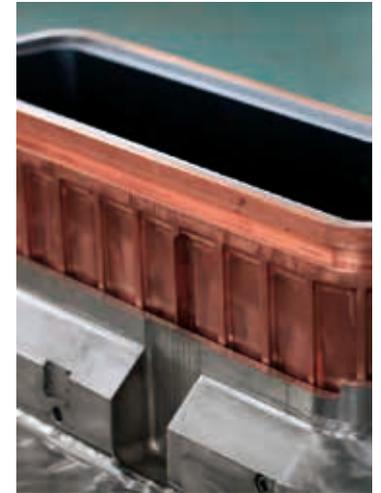
Billet Mold Assembly



Copper Molds



Copper Mold



Mold Oscillator



Bloom Mold Assembly



Foot-roll Assembly



Caster Equipment



Dummy Bar Head



Dummy Bar Chain



Dummy Bar Assembly

Caster Equipment

Segment Frame



Banana Seat



Caster Equipment

Tundish



Re-Heat & Heat Treatment Furnaces



Rollers & Castings for Reheat & Heat Treatment Furnace



Rolling Mill **Equipment & Parts**



Rolling Mill Equipment & Parts

Heat Resistant Castings



Complete Rolling Lines for:
Plate Mill, Hot Strip Mill, Tube Mill,
Bar Mill, Beam Mill.

- Mill Rolls
- Bearing Chocks
- Mill Housing
- Spindles
- Gears
- Cooling Beds
- Entry/Exit Guides



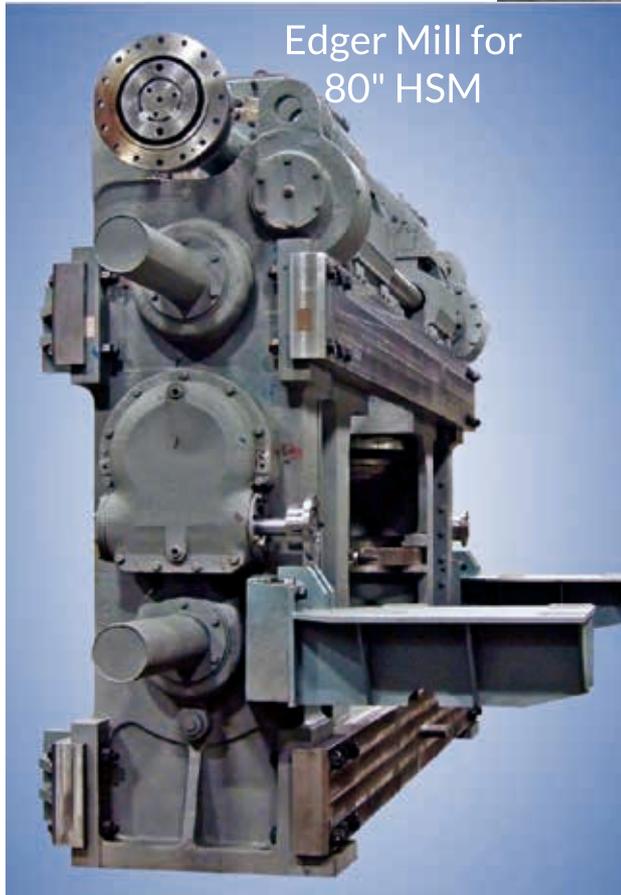
Rolling Mill Equipment



Straightener Rolls for
160" Plate Mill



Roll Chocks for
80" HSM



Edger Mill for
80" HSM



Stripper Blades
160" Plate Mill



Disc-type Cooling Bed



Spindle

Rolling Mill Equipment

Bar Tying Machine



Rolling Mill Equipment

Temper Mill



Housing for 3M Plate Mill



Mill Housing Being Machined



Rolling Mill Equipment

Gear Box



Gear Motor



Worm Gear Set Mill Housing



Mill Rolls & Rollers



- HSM & CSM Work Rolls
- Plate Mill Rolls
- Bar & Section Mill Rolls
- Tube Mill Rolls
- Carbide Rings for Bar & Rod

Mill Rolling & Rolling Tools

HSM & CSM Work Rolls

HSM Backup Rolls

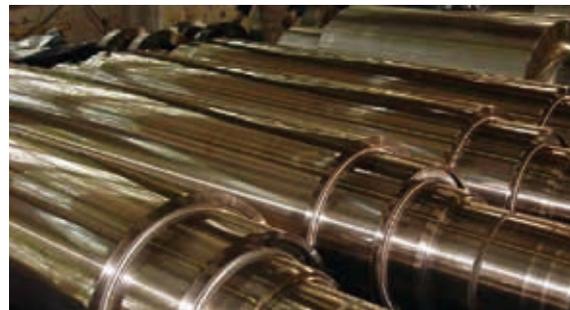
Sendzimir Mill Rolls

Plate Mill Rolls

Bar & Section Mill Rolls

Tube Mill Rolls

Carbide Rings for Bar & Rod



Mill Rolling & Rolling Tools

Foundry Capacity



Eight (8) Roll Foundries:

- Two (2) – HSM & plate mill work rolls
- Two (2) – Bar mill rolls
- One (1) – Heavy section mill rolls
- Two (2) – Tube mill rolls
- One (1) – HSM backup rolls

Annual Output (Metric ton):

- HSM & plate mill work rolls: 40,000
- Bar mill rolls: 28,000
- Heavy section mill rolls: 15,000
- Tube mill rolls: 13,000
- HSM backup rolls: 50,000

Castings

A large variety of castings machined or as cast to serve various industries.



Material Grades:

- Ductile iron
- Grey iron
- Carbon steel
- Alloy steel
- Stainless Steel
- Copper & Bronz

Casting Process:

- Green sand
- Resin bonded
- Lost wax
- Lost foam
- Shell molding
- Centrifugal

Misc. Machine Items



Contact Us

Contact us for a quote or a reference list for any project you are considering!



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