



UNISONS
STEEL SOLUTIONS
Design, Engineering, Layout and Project Execution Company.



Thank you to our trusted Partners!

We would like to extend our heartfelt thanks to all our partners for their unwavering support and collaboration throughout the years.



Committed to Success, Committed to You!

We would like to start by sending our heartfelt gratitude to our valued customers who put their faith in Unisons Steel Solutions throughout our two decades of service to the Steel Industry and helped us achieve our mission of modernizing the Steel Industry of Pakistan.

With the ever-growing demand of Steel and in a rapidly evolving global market, the steel industry requires an innovative approach and strategic foresight. Unisons Steel Solutions is at the forefront of providing consultancy and project execution services in Pakistan, that help our customers overcome these requirements with ease. This catalog highlights our commitment to delivering exceptional value through customized solutions, leveraging our extensive industry experience and cutting-edge equipment. Whether you are looking to take the first step in your steelmaking journey, optimize your production processes, or implement sustainable practices, our team is here to support you all the way. We invite you to explore our offerings and discover how Unisons Steel Solutions can help you achieve your business objectives and elevate your Steel production to greater heights.

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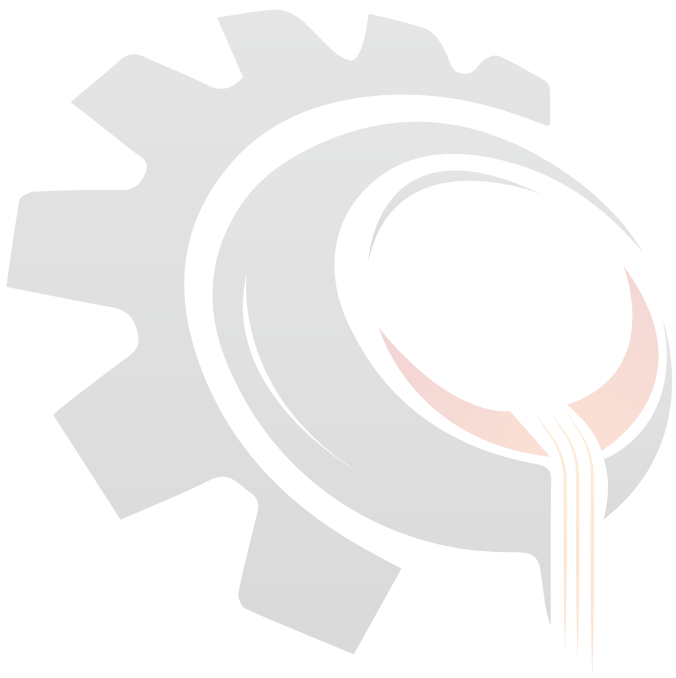
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UNISONS STEEL SOLUTIONS

Design, Engineering, Layout & Project Execution Company.



Your Vision is
Our mission

From concept to commissioning, our goal is to execute projects with a customers-first approach, providing our clients with complete end-to-end services from the supply of material and equipment to installation, erection & commissioning. With this vision, Unisons Steel Solutions has successfully executed over **50 projects** and revamps across Pakistan, including greenfield projects for a number of rising **Steel Manufacturers**.

Our Valuable Customers



+09

Induction
Furnaces

+07

Continuous
Casting Machines

+08

Rolling Mills

+02

Induction
Heaters

+02

Reheating
Furnaces

+20

Revamps

+03

Dust Control
Systems

+10

Project Feasibility
Reports

+08

Locations across
Pakistan

50+

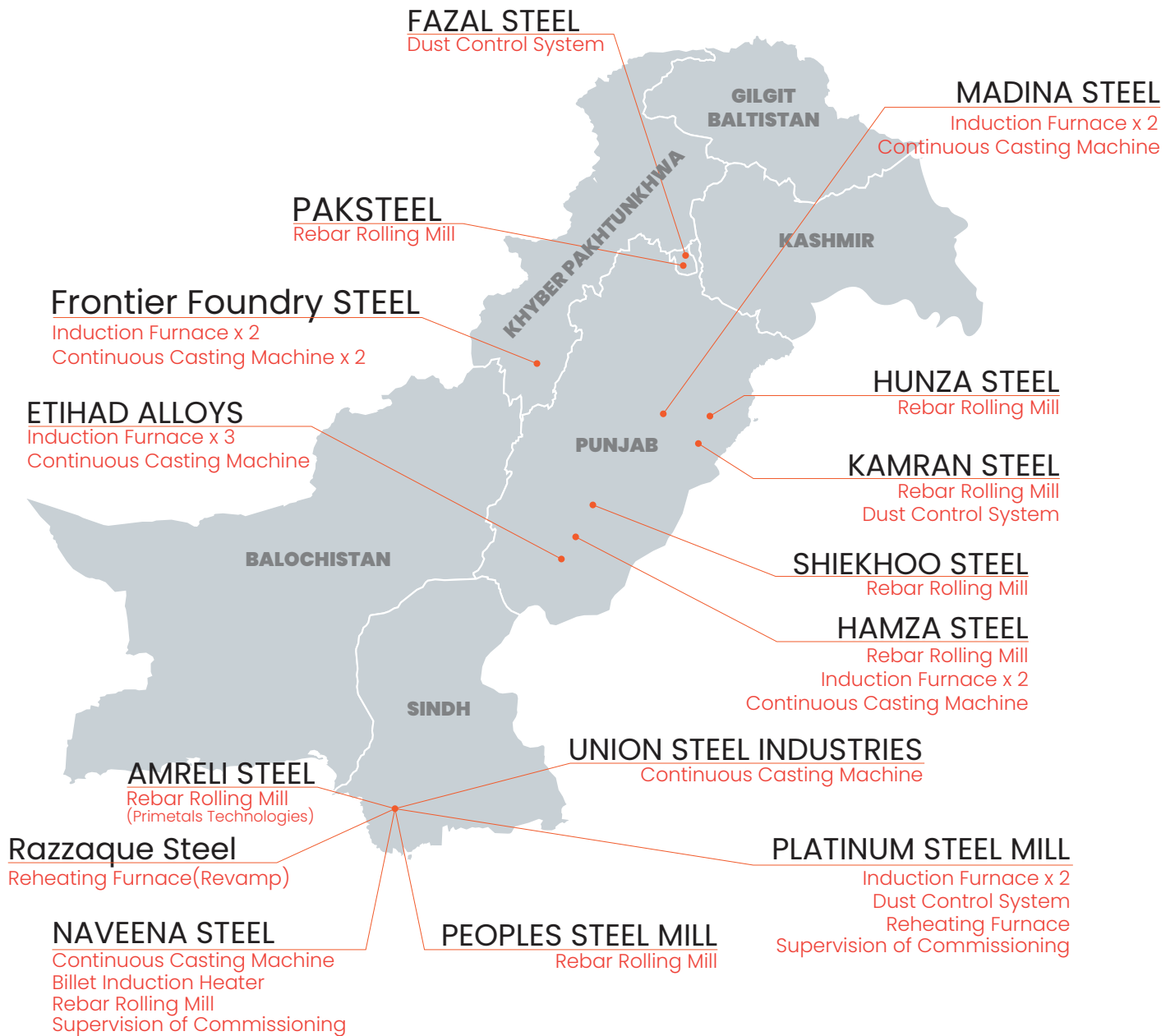
PROJECTS COMPLETED

Project Consultancy

Unisons Steel Solutions is well-versed in all phases of steel mill projects. Starting with project development and continuing through mill construction, start-up and optimization. With a staff of highly qualified engineers and consultants, we have managed to successfully execute over 50 projects in a since 2017.

Projects Executed Across Pakistan

By Unisons Steel Solutions



Project Development

Developing Business Plans, calculating Operational Cost Development, Facility Site Selection, Supplying Information Memorandum and generating Return On Investment Analysis are few of the Project Development services that Unisons Offers



Project Management

Carrying experience of over 2 decades, Unisons is staffed with highly skilled veterans of the Steel Industry, providing their services as Project Managers to our valued customers. Scheduling Projects, calculating cost and budget control as well as providing purchasing assistance.



Installation Supervision

Unisons Steel Solutions provides subcontractor supervision, mechanical advisory services as well as Installation services and Commissioning Services.



A brief history of Unisons Steel Solutions



1999

Establishment

The company was formed with the concept of being a small trading business.

2001-2011

Indenting Services

We began our Tendering & Indenting services to the Steel Sector where our primary customers were Pakistan Steel Mills, HMC, PMTF, Karachi Shipyard & SSGCL.

2016

International Growth

Unisons Steel Solutions became the first Official Business Partner of **Primetals Technologies** in Pakistan.

INDUCTION FURNACE



2024

2x25Ton Induction Furnaces

Unisons successfully executed the commissioning of 2x25 Ton Induction Furnaces at **Madina Steel** in partnership with **Hangzhou Star**.



2024

40TPH Rebar Rolling Mill

We executed the commissioning of 40TPH Rebar Rolling Mill at **Hunza Steel**, in partnership with **Wuxi Bolong Machinery**.



2023

1st Induction Furnace

In partnership with **Hangzhou Star Electric Furnace**, we supplied and executed the commissioning for our 1st Induction Furnace, 30 Tons at 16MW, at **FF Steel Lahore**, becoming the largest Induction Furnace in Pakistan.



2024

3 Strand CCM

Unisons successfully executed the commissioning of 3 Strand 6/11R CCM at **Madina Steel** in partnership with **Wuxi Bolong Machinery**.



UPCOMING PROJECTS IN 2024



2024

Induction Furnace

Execution of commissioning planned for 2x25 Ton Induction furnaces at **Hamza Steel**.



2017

1st Project Signing

Primetals Technologies partnered with Unisons, signed their first project in Pakistan with **Agha Steel** for a Rebar Rolling Mill of capacity 300,000 Tons.

REVAMP

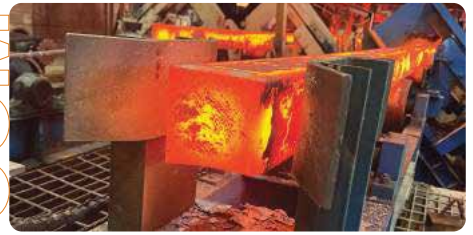


2018-2019

Revamping Sector

Unisons carried out the revamping of a 2 Strand CCM at **Diamond Metals** along with the supervision of production.

CCM



2020

1st CCM Commissioning

We accomplished the supervision of erection and commissioning of a 2 Strand CCM at **Naveena Steel**.

Rebar Rolling Mill



2022

CCM 3rd Strand

Unisons Steel Solutions successfully installed and commissioned the 3rd Strand at **Naveena Steel's** CCM.

INDUCTION BILLET HEATER



2021

Induction Billet Heater

Execution of commissioning of Induction Billet Heater at **Naveena Steel**, in partnership with **Elind Induction Heating Systems**.



2020

1st Rolling Mill Commissioning

Successfully carried out the supervision of the erection and commissioning of 240,000 TPA Rebar Rolling Mill at **Naveena Steel**.



2024

3 Strand CCM

Execution of commissioning planned for 3 Strand CCM at **Hamza Steel**.



2024

40 TPH Rebar Rolling Mill

Execution of commissioning planned for 40TPH Rebar Rebar Rolling Mill at **Hamza Steel**.



2024

Induction Furnace

Execution of commissioning planned for Induction Furnace at **EtiHAD Alloys**.



The Complete Unisons Experience

Company Values

20 YEARS OF SERVICE
TO THE STEEL INDUSTRY

Unisons Steel Solutions has been in service to the Steel Industry for over 2 decades with through the supply of consumables, equipment and machinery as well as the execution of projects throughout Pakistan.

Modernization & Innovation

Our goal is to Encourage innovative thinking and creative problem solving to develop unique and effective solutions that address the challenges and opportunities in the Steel Industry.

Integrity

Upholding honesty, transparency, and ethical conduct in all our interactions and operations, ensuring trust and credibility with clients and partners.

Collaboration and Partnership

We believe in fostering collaborative relationships with our clients and industry experts, recognizing that collective expertise and teamwork drive success.

Design, Engineering, Layout & Project Execution



Consultancy & Feasibility

Unisons Steel Solutions has established a team of experts, engineers & consultants with the capability of providing you with the best consultancy & advice for your endeavour into the Steel Industry.



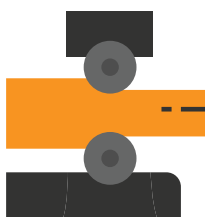
Steelmaking

We have supplied and executed the commissioning of over 09 Induction Furnaces across Pakistan, in partnership with major manufacturers such as Hanzhou Star to elevate the meltshop experience for our customers.



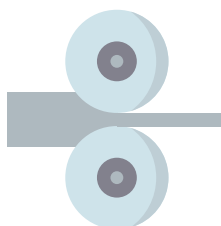
Continuous Casting

Unisons Steel Solutions has successfully executed the commissioning of over 07 CCMs throughout Pakistan, partnered with the best suppliers to provide our customers with state-of-the-art equipment.



Hot Rolling

Our team of highly skilled engineers have successfully executed the commissioning of more than 08 Rebar Rolling Mills in partnership with top suppliers such as Wuxi Bolong Machinery & Primetals Technologies.

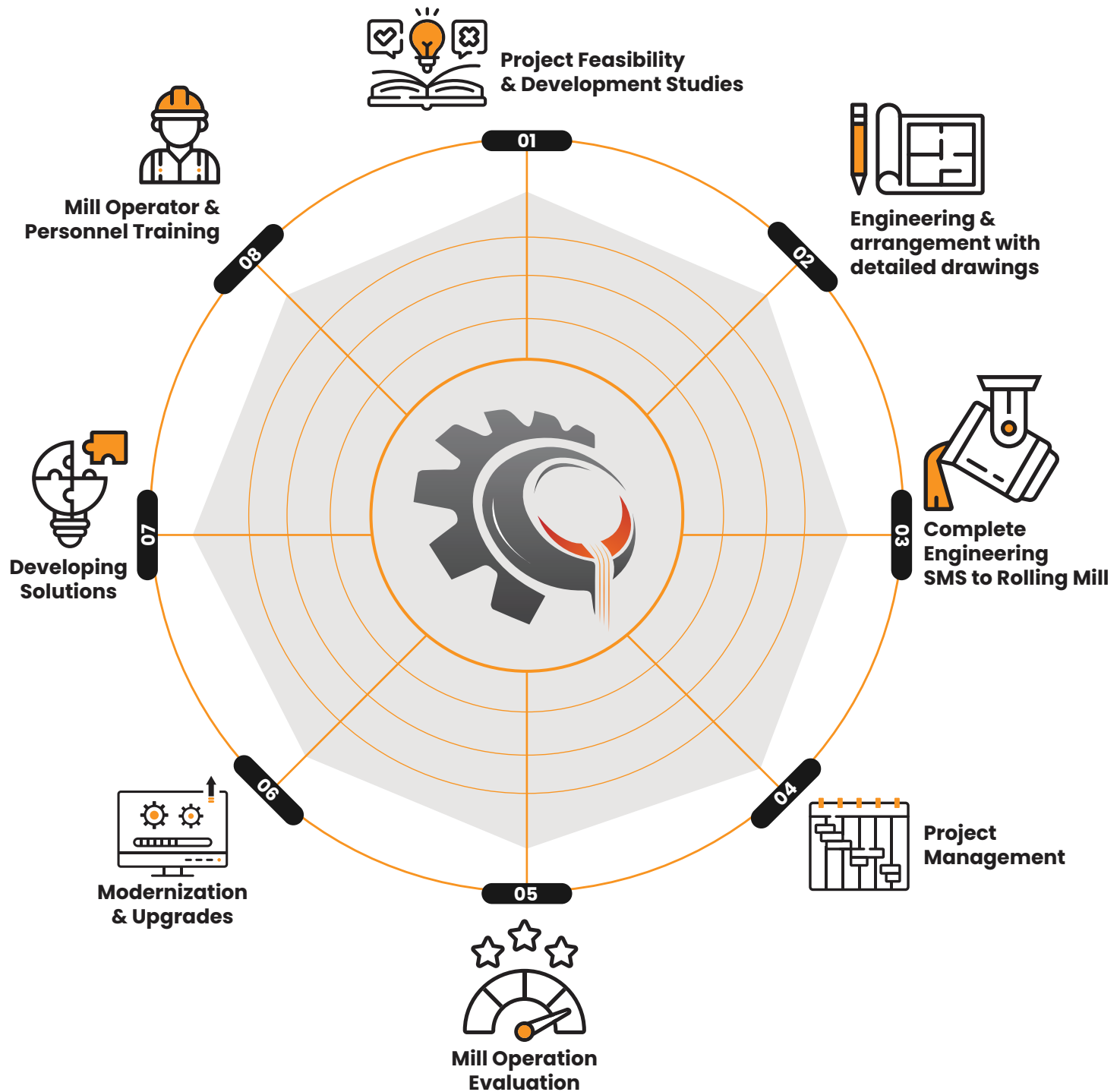


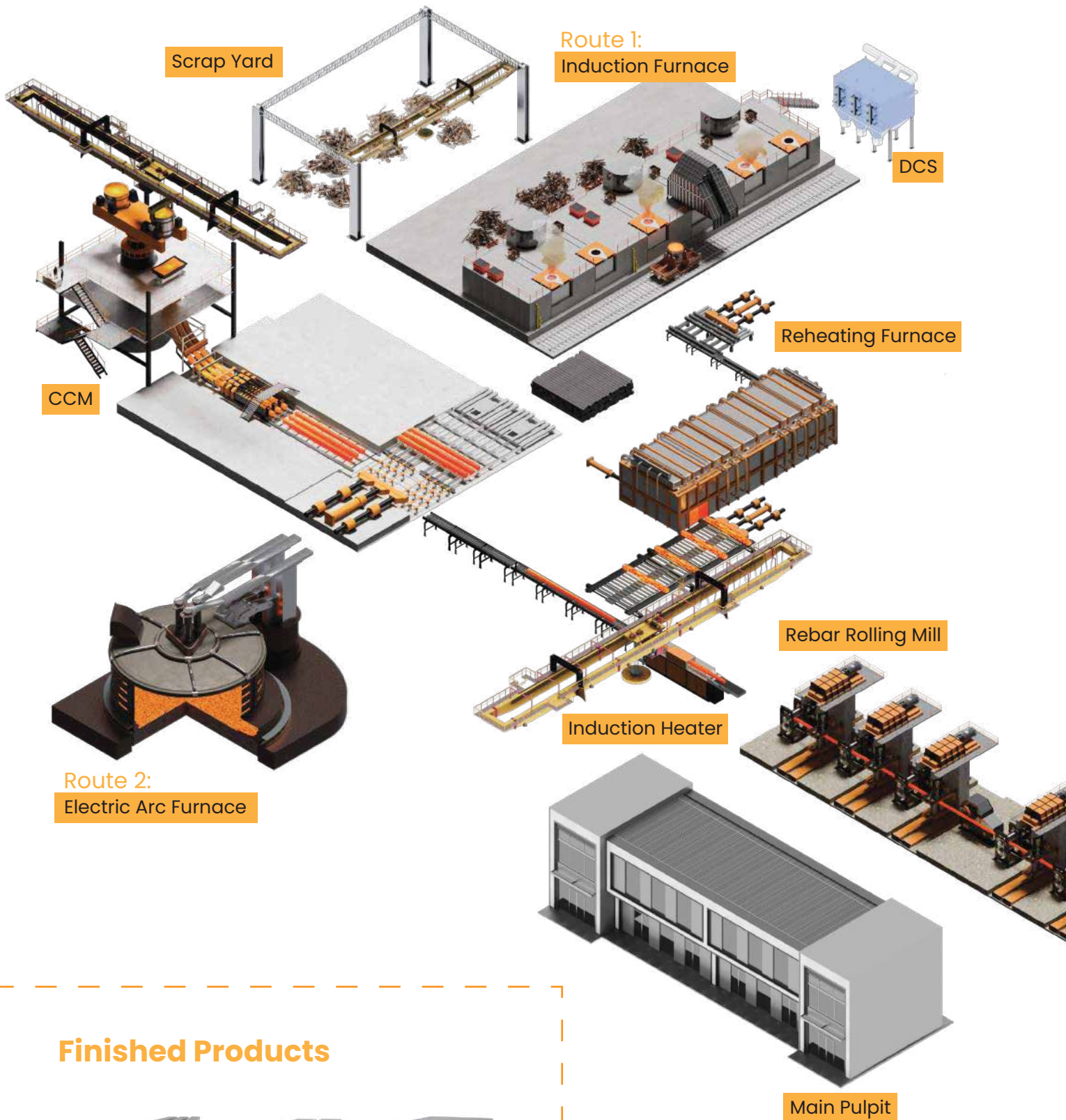
Cold Rolling

Unisons Steel Solutions is capable of providing you with modern equipment for the Cold Rolling process along with complete installation, erection and execution of commissioning.

Main Areas Of Expertise

With numerous years of experience in all phases of projects ranging from project development all the way through to mill design, construction, start-up and optimization, Unisons Steel Solutions is fully capable of providing full service and engineering solutions to the Steel Industry.





Finished Products



Billets



Blooms



Slabs



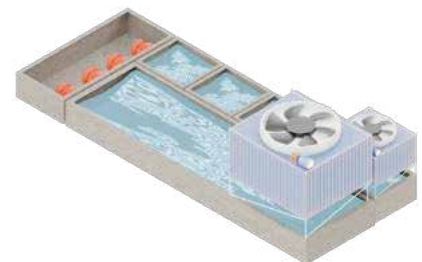
Sections



Coils



Sheets

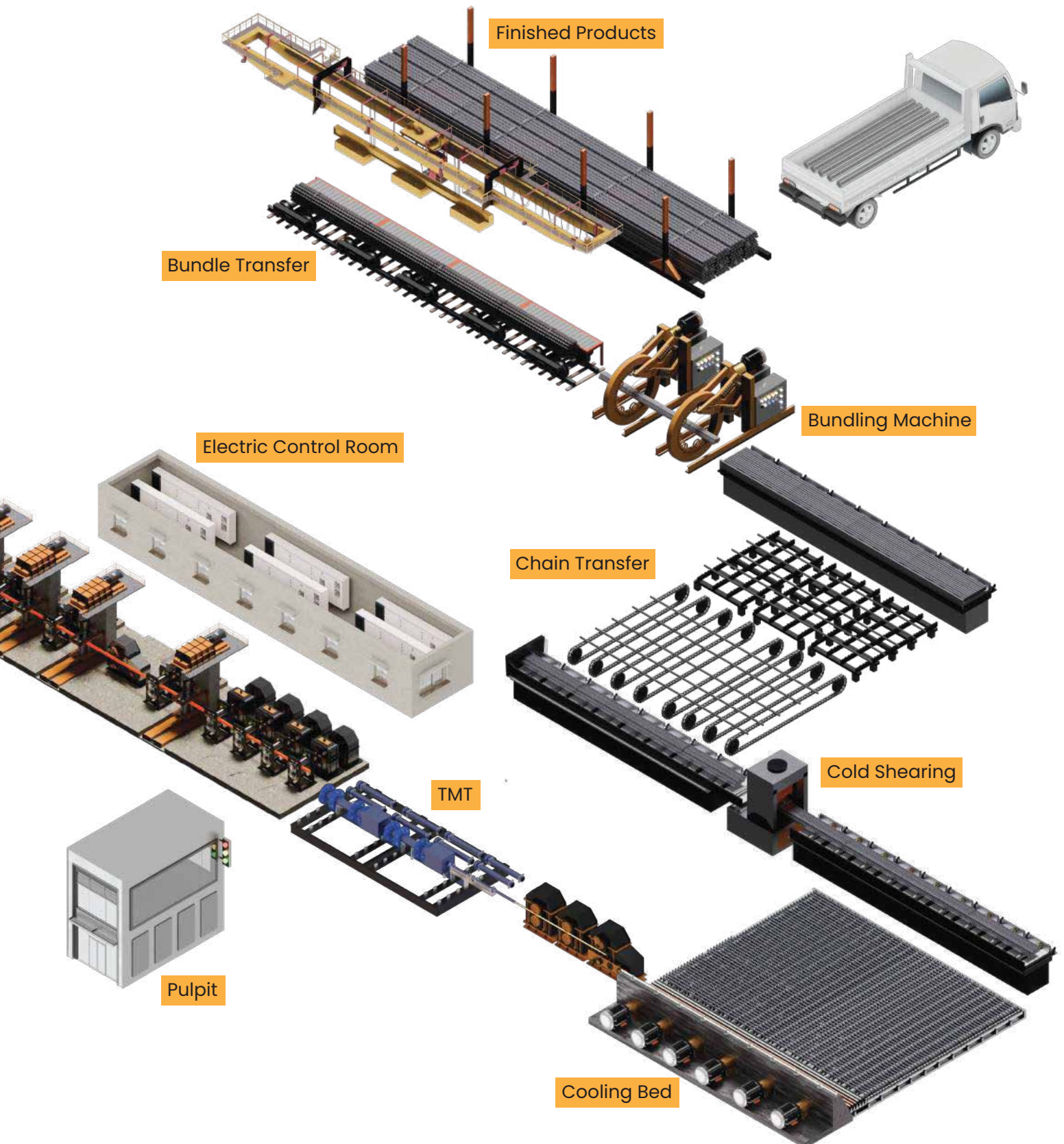


Water Treatment Plant



Leading the way in Layout Design & Engineering

Unisons Steel Solutions is providing the solutions for the entire process of Steel Manufacturing, Covering Consultancy, Engineering, Designing, Supplies, Erection, Commissioning & Startup.





Complete Line of Products



Steel Rolls

Rolling Mill

With the advent of **Fourth Industrial Revolution** or **Industry 4.0**, the need to enhance productivity, efficiency and flexibility has greatly increased, all while enabling more intelligent decision making and room for customizations in manufacturing and supply chain operations.

Unisons is fully equipped to meet these rising demands of the Steel Industry by the procurement of state-of-the-art mechanical, electrical and automation equipment. The involved tasks, like quality control of suppliers, expediting, supervision, inspection, logistics and export control/customs are also part of our scope.



Copper Mould Tubes

Continuous Casting



Slide Gate Set 1QC, 2QC

Continuous Casting



Tundish Nozzles

Continuous Casting



Brass Spray Nozzles

Cooling Process



Stud Welding Machine

Product Tagging



Casting Powder

Steelmaking



Nozzle-X
Steelmaking



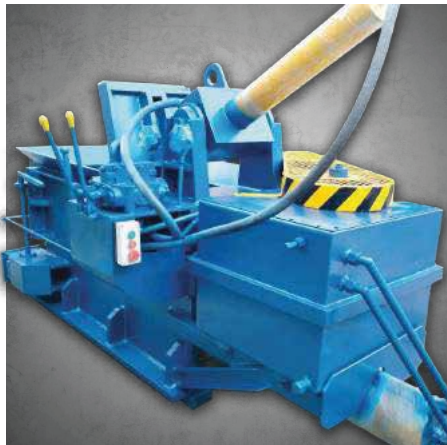
K-90 (Refractory)
Steelmaking



Composite Nozzle
Steelmaking



Contact Block
Steelmaking



Scrap Baler
Recycling



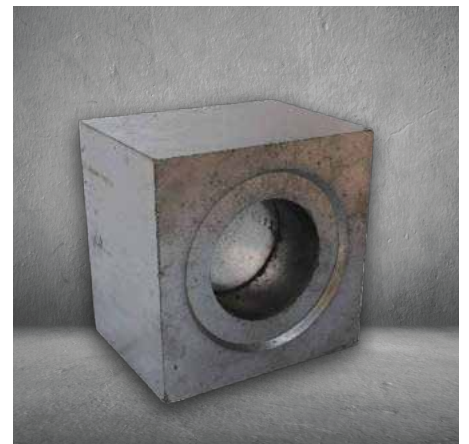
TC Rings
Steelmaking



CNC Cutting Tools
CNC Machine



AC Motors
General Purpose



Ladle Well Block
Steelmaking



Executing Projects

ACROSS THE COUNTRY

UNISONS STEEL SOLUTIONS IS CONTINUING THEIR MISSION TO MODERNIZE THE STEEL INDUSTRY.



Team of Unisons Steel Solutions & Wuxi Bolong Machinery after commissioning of Rolling Mill at Hunza Steel.



In today's fast-paced world with the ever-growing demand of Steel, advancements in Steelmaking are necessary to lead improvements in the efficiency, sustainability and quality of steel produced. Unisons Steel Solutions tackles this notion with an innovative approach. Supplying and Executing the commissioning of numerous key equipment for steel manufacturing, such as, Induction Furnaces, Continuous Casting Machines, Rolling Mills, Reheating Furnaces, Induction Heaters, Dust Control Systems and other vital components of the steelmaking cycle.

Unisons Steel Solutions has carried out the execution of numerous projects and revamps in recent years. Ranging from the initial concept, design and layout planning, to the installation, erection and commissioning of various essential equipment in the steelmaking process. Unisons also aims to incorporate energy efficient technologies in their projects in order to provide more energy efficient solutions to our customers.

By partnering with Wuxi Bolong Machinery, Hangzhou Star Induction, Primetals Technologies, Pomini Long Rolling Mills and other esteemed organizations of the Steel Industry, Unisons Steel Solutions has managed to accomplish over 50 projects and revamps which include a number of greenfield projects that are now successfully in production.

1

Induction Furnace

One of the most vital components on a steel manufacturing plant, Induction furnaces play a crucial role in modern steelmaking due to their efficiency, versatility, and environmental benefits. These furnaces use electromagnetic induction to generate heat, making them distinct from traditional furnaces that rely on combustion or arc-based methods. Here's a detailed look at induction furnaces, covering their working principles, types, advantages, limitations, and applications.

Energy Efficiency

Induction furnaces are known for their high energy efficiency compared to traditional electric arc furnaces (EAFs). They convert a higher percentage of electrical energy into heat.

Environmental Benefits

These furnaces produce fewer emissions and pollutants since they do not rely on combustion. This makes them a greener alternative in steelmaking.

Flexibility

Induction furnaces can melt a wide range of metals and alloys, making them versatile for different metallurgical processes. They are also suitable for smaller batch sizes.

Precise Control

Operators can achieve precise control over the melting process, including temperature regulation and alloy composition, resulting in high-quality steel products.

Reduced Melting Losses

The induction process minimizes oxidation and other melting losses, improving yield and material efficiency.

Compact Size

Induction furnaces typically have a smaller footprint compared to traditional furnaces, saving valuable space in production facilities.

Executed Projects for Induction Furnaces

Madina Steel

Unisons Steel Solutions has partnered with Hangzhou Star Electric Furnace to supply and execute the commissioning of 2 x 25 Ton Induction Furnaces at Madina Steel.



Induction Furnace commissioning at Madina Steel.



Platinum Steel

Installation and Commissioning of 12 Ton @ 6.5 MW power Induction Furnace executed by Unisons Steel Solutions, in partnership with 5M Induction Systems.

Induction Furnace commissioning at Platinum Steel.



2 x 30 TON 16 Megawatts

Frontier Foundry Steel

In late 2022, Unisons Steel Solutions successfully executed the commissioning of **2 x 30 Ton @ 16MW** Induction Furnaces at FF Steel, Lahore, in partnership with Hangzhou Star & Bolong Machinery.

This marked an incredible achievement for all teams involved as at the time it became the largest Induction Furnace in Pakistan.



2

Continuous Casting Machine

A core equipment in the steelmaking process, Continuous Casting Machines are used primarily for the efficient and economical production of metal billets, blooms, and slabs directly from molten metal. The process has revolutionized the steelmaking industry by improving yield, reducing costs, and enhancing the quality of the final product.

Improved Yield and Efficiency

Eliminates the need for primary rolling, reducing material wastage and improving yield.

Enhanced Product Quality

The controlled solidification process leads to fewer defects and better surface quality of the cast products.

Cost Reduction

Lower operational costs due to reduced labor, energy, and material handling requirements.

Flexibility

Continuous casting machines can be adjusted to produce various shapes and sizes, catering to diverse industry needs.

Environmental Benefits

Reduced energy consumption and material wastage contribute to lower environmental impact.



Executed Projects for Continuous Casting Machines

Madina Steel

Execution of commissioning for CCM at Madina Steel by Unisons Steel Solutions, supplied by Wuxi Bolong Machinery. The CCM consists of 3 Strands, 6x11R with SCADA based automation and billet size of 100-150mm.



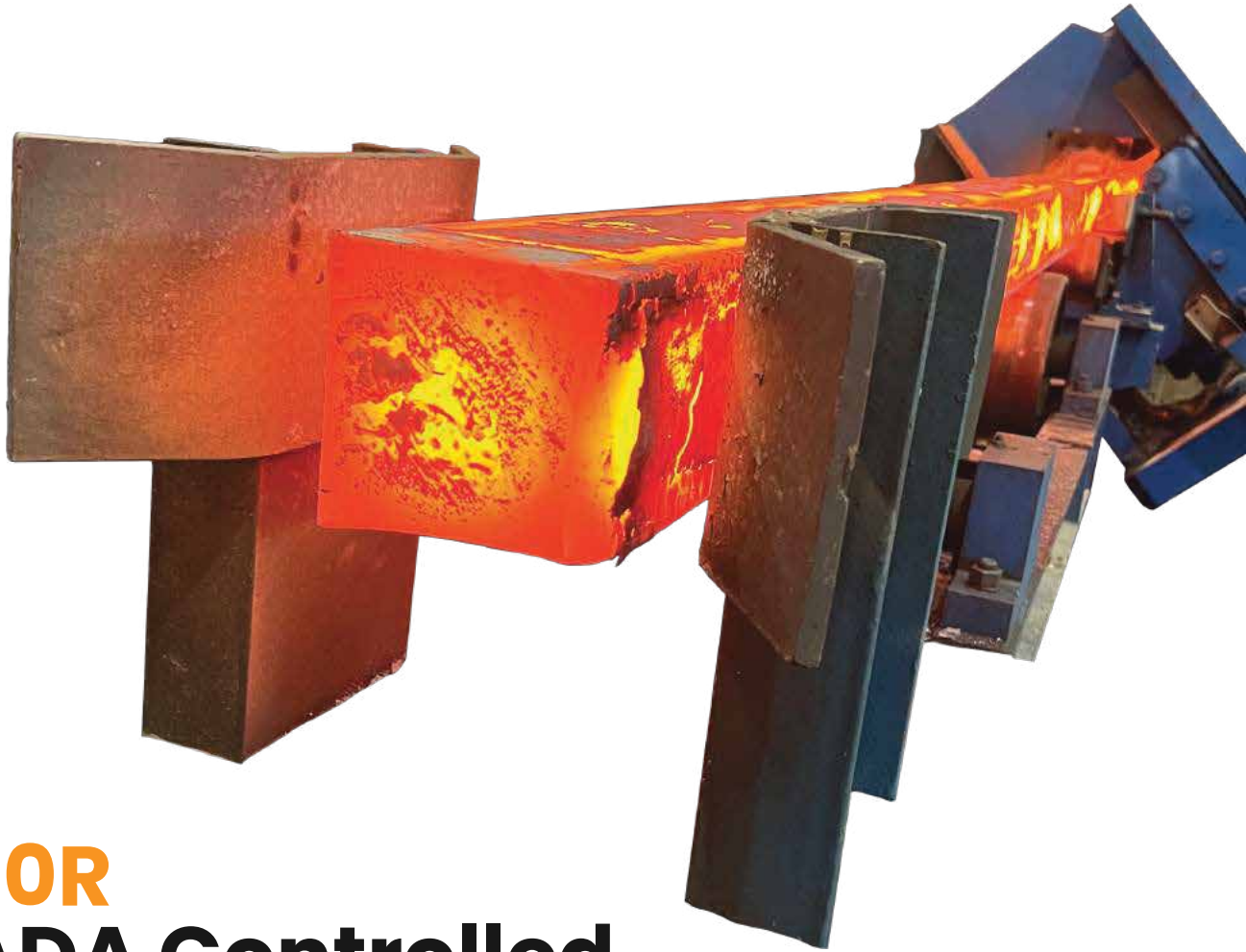
CCM commissioning at Madina Steel.



Frontier Foundry Steel

Supervision of commissioning for 6000R, 3 Strand CCM with SCADA automation, at FF Steel Lahore Unit, successfully completed by Unisons Steel Solutions.

CCM commissioning at FF Steel.



6000R SCADA Controlled

Naveena Steel

Execution of commissioning of 6000R Continuous Casting Machine successfully completed by Unisons Steel Solutions at Naveena Steel. The CCM is automated with SCADA controlled system.

3rd Strand Commissioning

The installation and commissioning for the 3rd Strand of this CCM was also completed by Unisons Steel Solutions.



This was a challenging task for the team to reverse engineer the equipment in order to install the new equipment on previously laid civil foundations. Unisons was also able to synchronise the new 3rd Strand with the SCADA system of the pre-existing strands.



3

Rolling Mill

The semi-finished products from the continuous casting machine are then processed by the Rolling Mill, a fundamental equipment for the finishing process of Steelmaking. Rolling Mills are employed to reduce the thickness, alter the cross-sectional area, improve surface finish, or impart desired mechanical properties to metal.

Improved Material Properties

Rolling processes refine the grain structure of steel, improving its mechanical properties such as strength and toughness.

Cost-Effectiveness

The rolling process minimizes material wastage by efficiently converting raw materials into finished products.

Dimensional Accuracy

Rolling mills can produce steel products with precise dimensions and consistent cross-sectional profiles, ensuring high-quality output.

Versatility

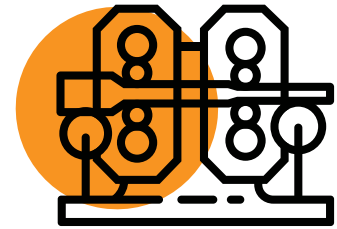
Rolling mills can produce a wide range of steel products, from bars and structural beams to thin sheets and plates.

Increased Production Efficiency

Rolling mills are capable of producing large volumes of steel quickly, enhancing production rates and meeting high demand.

Quality Improvements

By controlling the rolling process parameters, the mechanical properties of steel can be enhanced to meet specific application needs.



Executed Projects for Rolling Mills

Hunza Steel

Unisons Steel Solutions has successfully executed the commissioning of 40TPH Rebar Rolling Mill for Hunza Steel supplied by Wuxi Bolong Machinery. This is the flagship project of Bolong in Pakistan. The Prominent Configuration of the Mill is Induction Heater, Snap Shear before roughing stand, AC motors, Siemens Drives, 16 H/V Stands and design speed is 12 Mtr/Sec with 10x2.



Rolling Mill commissioning at Hunza Steel.



Peoples Steel Mill

A five day training session program conducted by Unisons Steel Solutions for Automatic Rebar Rolling Mill at Peoples Steel Mill.



Rebar Rolling Mill training session at Peoples Steel Mill.



240,000 TPA Rebar Rolling Mill

Naveena Steel

Unisons Steel Solutions successfully executed the erection and commissioning of a 240,000 TPA Rebar Rolling Mill at Naveena Steel, supplied by Primetals Technologies.

Engineering Support during a Time of Crisis

The commissioning of this Bar Rolling Mill marked a significant milestone for Unisons Steel Solutions, as it took place during the



COVID-19 pandemic and the manufacturers of the Rolling Mill were not available on site. Unisons Steel Solutions took on the sole responsibility for the supervision of the erection and commissioning of the Rolling Mill in coordination with the engineering team of Naveena Steel.



**AMRELI
STEELS**



SUGAR MILLS LIMITED



**HUNZA
STEEL**



KAMRAN STEEL



**NAVEENA
STEEL**



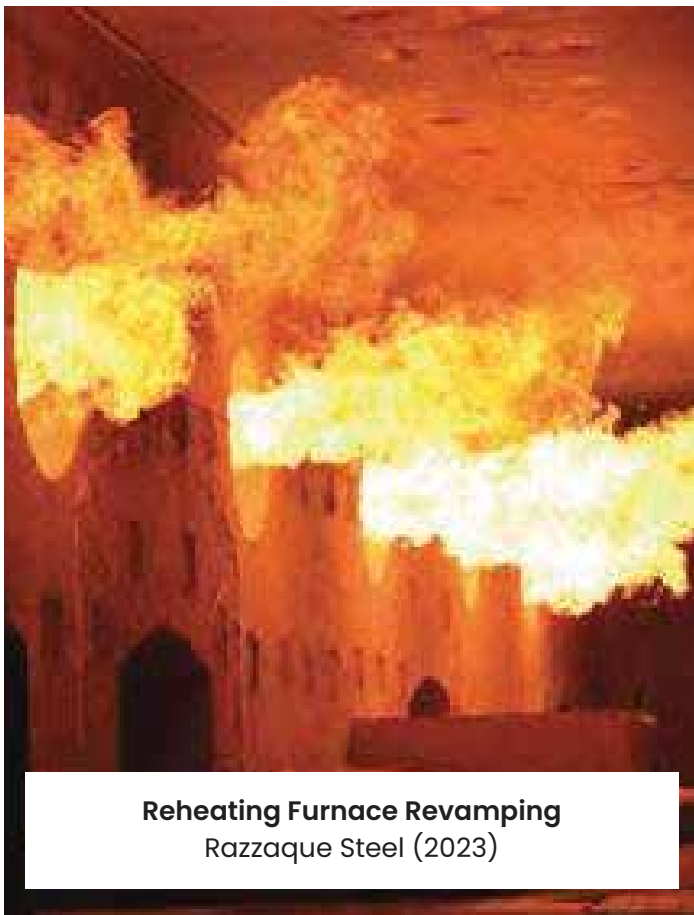
**SHEIKHO
STEEL**



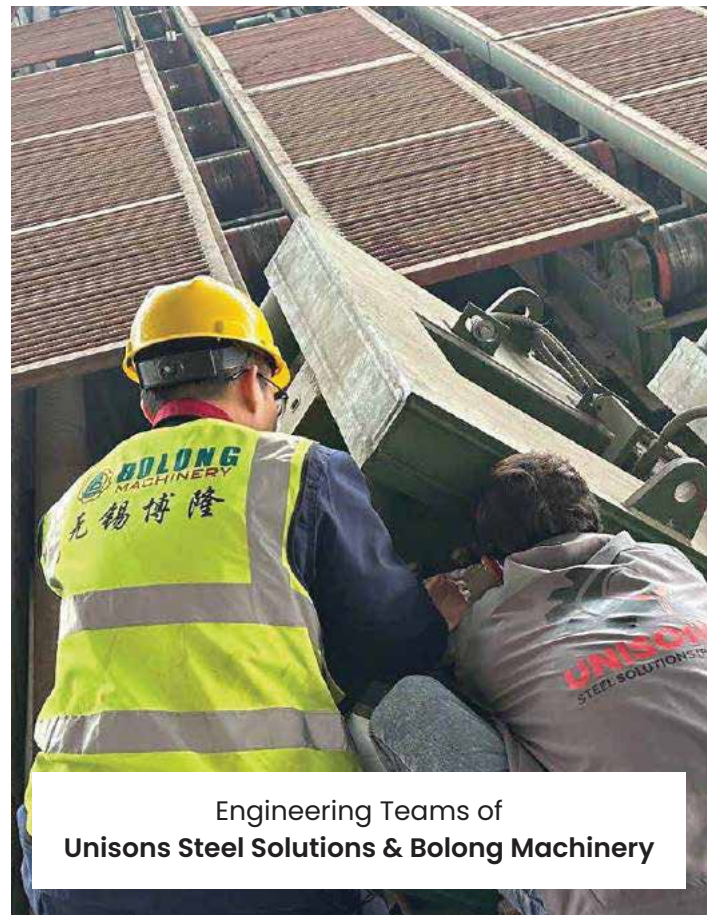
Billet Induction Heater Commissioning
Naveena Steel (2021)



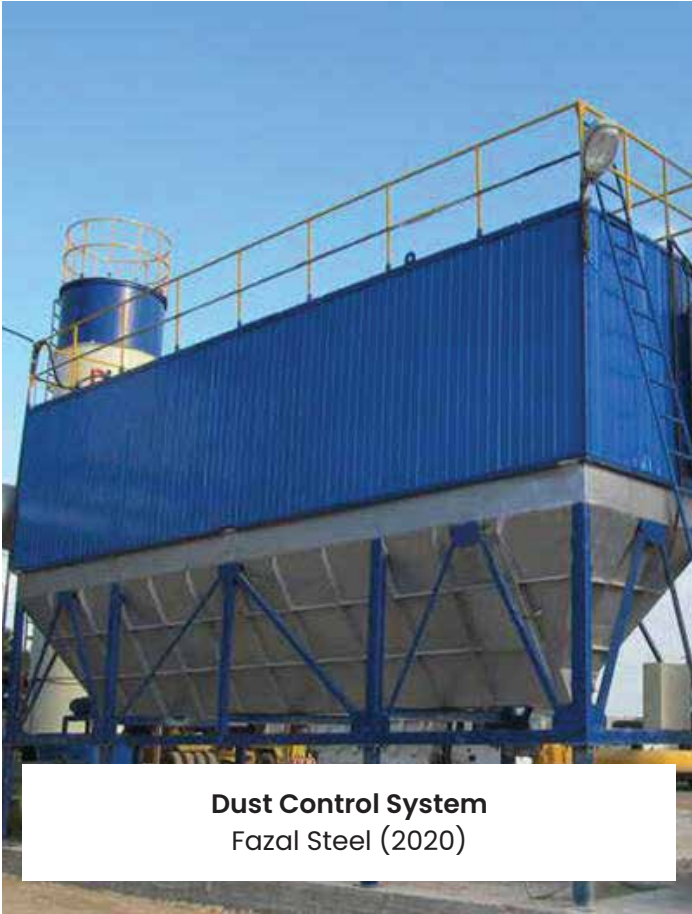
Ladle Turret
Madina Steel (2024)



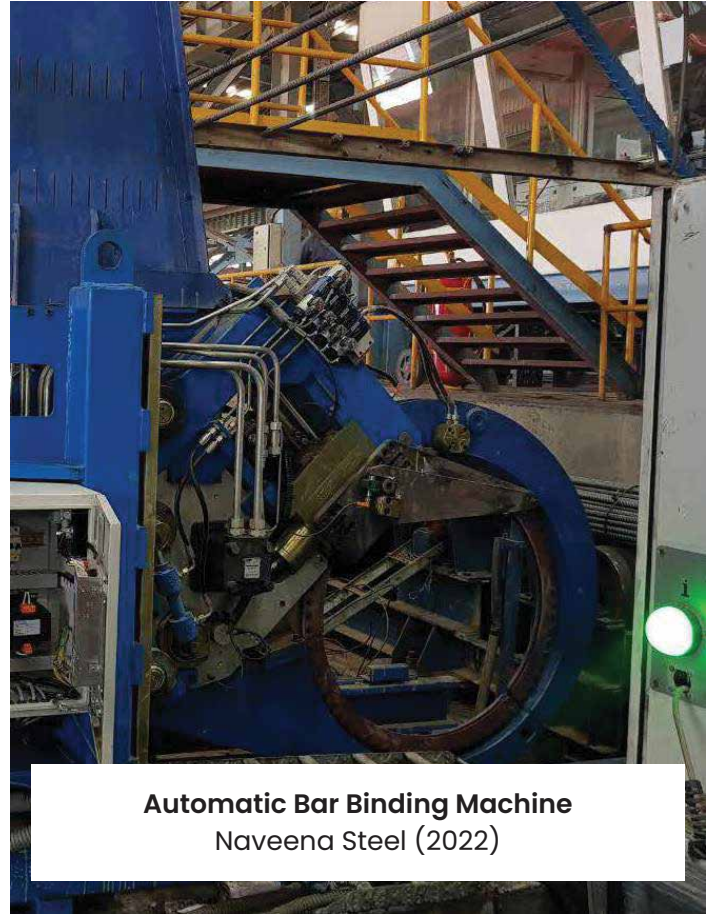
Reheating Furnace Revamping
Razzaque Steel (2023)



Engineering Teams of
Unisons Steel Solutions & Bolong Machinery



Dust Control System
Fazal Steel (2020)



Automatic Bar Binding Machine
Naveena Steel (2022)

Meeting Challenges WITH MODERN SOLUTIONS

With mass urbanization on the rise, Unisons Steel Solutions expects that investments in construction projects will only increase in the coming future. This means an increase in steel demand and new grades of steel for high-performance applications will be required from the Steel Industry. Construction projects that involve especially effective thermal and acoustic insulation.

Unisons Steel Solutions is meeting these challenges head-on with modern solutions and by partnering with top organizations in the Steel industry to supply state-of-the-art equipment and machinery required.

In hot and humid environments, such as South East Asia and the Middle East, there is a growing need for steels with further improved corrosion resistance. The development of steel composites will have to be promoted, and structures such as skyscrapers and long bridges necessitate new special steels to support their design.



Official Business Partner in Pakistan

Wuxi Bolong Machinery Co.,LTD (China) is a leading manufacturer of metallurgical equipment professional, specialized in steel melting and rolling mill technology. The company supplies high quality and efficient equipment along with comprehensive service. Relying on advanced technology, outstanding economic performance, excellent equipment quality and professional technical services, their technical design and equipment have attained them high reputation world-wide.

SCORECARD

36 MINIMILL Turnkey Plants
28 MELTING SHOPS
54 ROLLING MILLS
426 STRANDS CCM Installed

Corporate Timeline



1986

1st CCM direct rolling mill

1994

1st 1000mm Plate Mill 300,000 TPA

1998

1st Wire Rod Rolling Mill 600,000 TPA

2003

1st MINIMILL TURNKEY in Changda Steel 400,000 TPA Induction Furnace melting, CCM, Direct Rolling

2008

1st H/V HIGH SPEED BAR/ROD MILL Installed 800,000 TPA Single Rolling Mill Line

1990

1st 600mm Strip Mill 300,000 TPA

1997

1st Machine Workshop Open

2002

1st R9m 10 Strands CCM

2006

1st R3m CCM Casting 60 sqr Billet perfect shape in Thailand

2009

1st H/V SECTION MILL 600,000 TPA BOLONG AUTOMATION START-UP

2010

Strand Slitting Rolling Achieved at 13m/s

A Leading Manufacturer of Metallurgical Equipment

Wuxi Bolong Machinery provides a wide array of equipment and services for the Steelmaking process. Around-the-clock plant monitoring coupled with clearly defined processes, uniform manuals, assured parts availability, and a globally available team of specialists – for minimized shutdown times and high performance throughout the lifecycle of the plant.



Steelmaking

- Electric Arc Furnace
- Induction Furnace
- Ladle Furnace



Continuous Casting

- Billet Caster
- Slab Caster



Rolling Mill

- Bar & Wire Mills
- Hot & Cold Strip Mills
- Section Mills

Projects in Pakistan



2013

FIRST TURNKEY EAF
MELTING & CASTING
Oversea in CANSAN
Turkey

2016

TURNKEY MINIMILL
400,000 TPA in Izmir
Turkey

2018

1st Turnkey
Rolling Mill in
Africa

2022

2x30 Ton Induction
Furnace in Pakistan

2023

3 Strand, 6/11R
CCM in Pakistan

2013

FIRST MINIMILL
Oversea in Kiredmir
Turkey
Induction Furnace, CCM
& Rolling Mill Turnkey Project

2018

1st Turnkey
Rolling Mill in
Africa

2020

Achieved 4 mtr/min
Casting speed for
165 sqr b illet in R10m
CCM

2023

40TPH Rebar Rolling
Mill in Pakistan

2024

40TPH Rebar Rolling
Mill in Pakistan



Dalian Dashan Metallurgical Engineering Technology Co., Ltd

DDmet's main engagements include development and design of metallurgical engineering technology, dedicated equipment for metallurgy, technological development, technical consultation, technical services and supply of complete equipment. Its key products include iron and steel smelting equipment, continuous casting equipment, rolling equipment, metallurgical auxiliary equipment and environmental protection equipment, among which continuous casting machines and related spare parts are being supplied to more than 40 countries.

Copper Mould Tubes

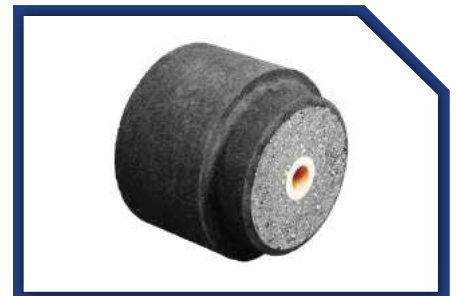


Puyang Refractories

The primary business of PRCO Ltd is refractory research, production, development & sales for unshaped and functional products, and supporting facilities, design, installation and service for all kinds of thermal equipments and refractories. At present PRCO has provided high quality products and services for nearly 70 top-hundred global steel enterprises, including more than 20 series and 200 categories refractories of purging plug, seating block, castable, slide gate nozzle, black refractories, and MC/AMC, etc, widely used in steel, nonferrous smelting, electric power, petroleum and casting industries.



Refractories and Castables for the Steel Industry





HENAN HONGDA

宏达炉业 National High-Tech Enterprise

Henan Hongda Furnace Industrial Co., Ltd. was founded in 1998, a stock company established by Henan Metallurgy Institute, engaged in unshaped refractory R&D, production, trade and integrated service. Hongda is a technology-oriented company, that aims to be a top refractory materials provider, their R&D team has strong capability and influence in China refractory industry. They own advanced facilities, highly professional and well-educated staff, follow the latest international refractory technical development, depend on the technical resource of Henan Metallurgy Institute, maintain close cooperation with several universities and institutes, Hongda company keep leading Chinese refractory technology trend.



恒乾三力

Hengli Electric Machine

AC/DC Motors for the Steel Industry

Hangzhou New Hengli Electric Machine MFG. Co., Ltd. was founded in 1954. They have over 68 years of manufacturing experience in various types of DC & AC Motors with a focus primarily on customer-centered product development methodology, manufacturing motors under the special requirements of customers.





SHANGHAI TANGSHAN

HEAVY MACHINERY INTERNATIONAL CO., LIMITED



PRODUCING OVER 40,000 TONS OF ROLLS & SLEEVES

TSR is a professional company supplying the Rolls for rolling mills, as well as technical services. They have an expert team consisting of doctors majoring in material and metallurgical industry. Their aim is to develop into a world level supplier of roll technology and services.

MANUFACTURING ROLLS FOR

• Long Products

TSR PRODUCT LINE



Alloyed Cast Iron Rolls



Adamite Rolls



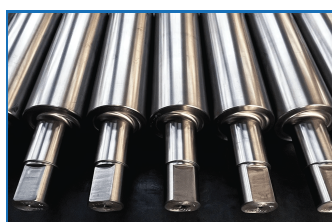
Graphitic Rolls



HSS Rolls for Rebar Mills



Pearlitic Nodular Cast Iron Rolls



Bainitic Nodular Cast Iron Rolls



Cast Rolls with Grooves



Sleeve & Roll Shaft

• Hot Strip & Plate Mills

TSR PRODUCT LINE



High Chrome Steel Rolls



High Chrome Steel Rolls



Enhanced ICDP Rolls

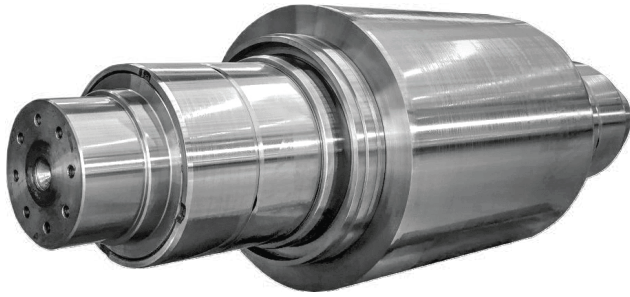


Cast Backup Rolls



CHANGZHOU KAIDA

HEAVY INDUSTRY TECHNOLOGY CO., LTD



Changzhou Kaida Heavy Industry Technology Co.,Ltd. was founded in 1951, started their research and development of hot rolling mill rolls in 1979. After years of rigorous product research and technology innovation, Kaida Roll is now the top three specialized rolls manufacturer and the largest manufacturer for section mill rolls in China.

Producing over 50,000 Tons of Rolls & Sleeves Per Year



Enhanced Indefinite Cast Iron Rolls



Non-Continuous Carbide Rolls



Clear Chilled Rolls



Cast Rolls For Cold Rolling Mills



Alloy Nodular Cast Iron Rolls



AUTOMAZIONI INDUSTRIALI CAPITANIO



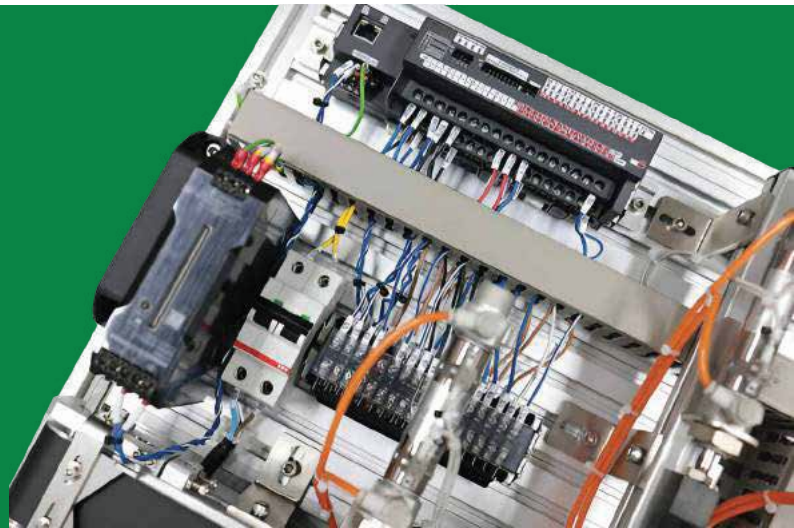
AUTOMATIONS FOR THE ENTIRE STEEL PLANT



PLC

Programmable Logic Controllers

Engineered to perfection, PLCs that offer unparalleled reliability, flexibility, and efficiency for any application in the Steel Industry. With intuitive programming interfaces and robust connectivity options, our PLCs empower you to streamline operations, reduce downtime, and enhance productivity.



HMI

Human Machine Interface

HMI's designed for ease of use and maximum efficiency, providing intuitive, real-time control and monitoring of your operations. With vibrant, high-resolution displays and user-friendly touchscreens, our HMI's offer seamless integration with existing systems, ensuring that complex processes are simplified and actionable insights are always at your fingertips.





HENAN LONGCHEN

CASTING POWDER

CHENGFEI
成飛

Longcheng Metallurgical Materials Co., Ltd. The most competitive R&D and production base of continuous casting mold powder in China. Product range includes all kinds of pre-melting hollowware continuous casting mould powder, ladles, Iron clad and Tundish covering agents, Refining Slag(Fused calcium aluminate) and other products.



PURMETALL

CHROMITE SAND

With its annual production of approx. 30,000 tons, Purmetall is one of the largest manufacturers of ladle well fillers worldwide. We serve more than 100 customers in 45 countries, who produce more than 100 million tonnes of steel, and count on the quality of PURMETALL's ladle well fillers.



INTOCAST

SCHIEBERSAND

INTOCAST experts are constantly working on the improvement of our Schiebersand products at our in-house technology center and our five production sites. Decades of experience and international technology exchange between our production sites have made INTOCAST one of the leading Schiebersand suppliers.





HANGZHOU STAR ELECTRIC FURNACE

INDUCTION MELTING FURNACES & HEATING EQUIPMENT



Specialists in Induction Furnace

Hangzhou Star Electric Furnace is serving the Steel Industry by supplying Induction Furnaces with capacity ranging from 3MT to 90MT along with solid state power supply from 2000kW to 40000kW.

As a leader in Induction Furnace manufacturers in China, Hangzhou Star has exported their furnaces to major steel manufacturers in Europe, South America, Middle East, Latin America and the Asian market, while also providing the complete set of design, engineering, installation, maintenance and repair services with their team of experienced induction furnace specialists.



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Smart **MELT**

DIGITALIZE YOUR STEEL MAKING.

**ACCESS YOUR DAILY
PRODUCTION, REPORTS,
TRENDS AND ERP**

ANYWHERE, ANYTIME.



Smart Melt is a new innovation in the world of Metallurgy. It is an application by Unisons Steel Solutions that allows users to completely digitalize their Steelmaking process and make their day-to-day trends and reports available to them anywhere, anytime!

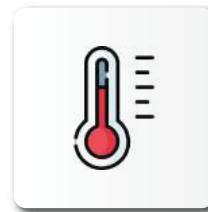
From the Scrapyard to final production, Smart Melt has the capability to record, maintain and display all data to you which will help you to analyze your production cycle in a more efficient and profitable way.



Sampling Time &
Spectro Test Results



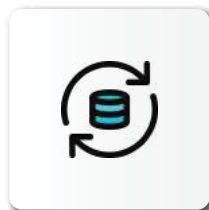
Furnace Operation
Time & Power Usage



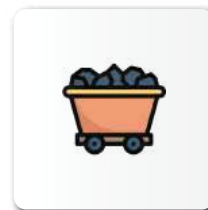
Record Temperatures
& Tapping Time



Calculation of Scrap
Utilization



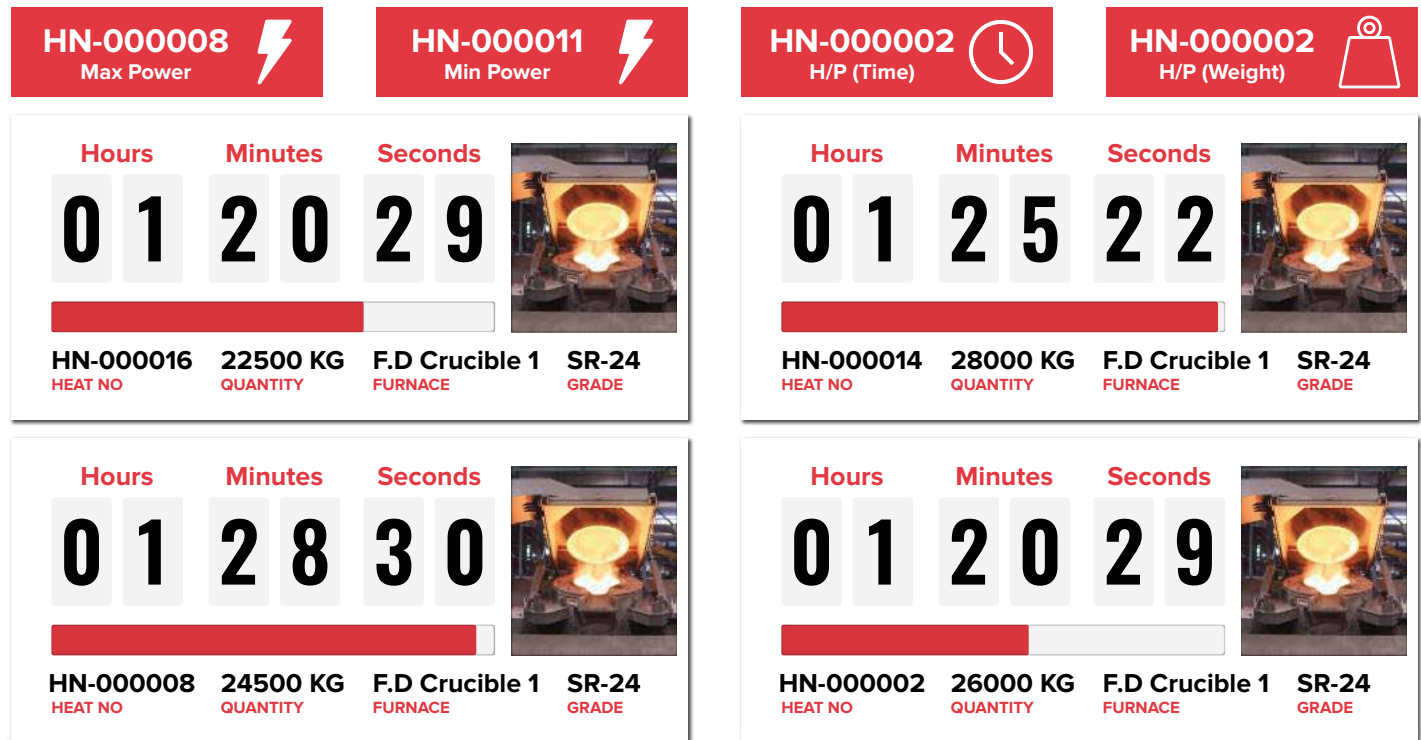
Synchronize Alarms &
Monitoring Systems



Keep track of Alloy
Consumption



KEEP TRACK OF YOUR FURNACE OPERATIONS.



COMPATIBLE WITH ANDROID & iOS.

Android

Available for android phones.



iOS

Available for iOS phones.





Unisons Steel Solutions

Reference List 2023–2024

S.No	Company	Product	Year	Supplier
1	AFCO Steel	Rolls	2024	China
2	Al-Shafi Group of Companies	Rolls	2023	China
3	Amreli Steels Ltd	Rolls	2024	China
4	Amreli Steels Ltd	Rolls	2023	China
5	Amreli Steels Ltd	HSS Rolls	2023	China
6	Arabian Gulf Steel	Magnet	2024	China
7	ASAS Steel	Rolls	2024	China
8	ASAS Steel	Thermocouple Rod	2024	China
9	Etihad Alloys (Pvt.)Ltd.	DC Reactor	2023	China
10	Faizan Steel	Copper Mould Tube	2023	China
11	Faizan Steel	Copper Mould Tubes	2024	China
12	Faizan Steel	Rolls	2023	China
13	Faizan Steel	Slide Gate Set & K-90	2024	China
14	FF Steel	Coil Assembly (Complete)for Induction Furnace	2023	China
15	FF Steel	Copper Mould Tubes	2023	China
16	FF Steel	DC Motor	2024	China
17	FF Steel	Motors	2023	China
18	FF Steel	Motor (Replacement)	2024	China
19	FF Steel	Pump	2023	China
20	FF Steel	Rolls	2023	China
21	FF Steel	Rolls	2023	China
22	FF Steel	Rolls	2024	China
23	FF Steel	Slide Gate Set	2024	China
24	FOR/Madina Enterprises	Induction Heater	2024	China
25	Gul Shahzada Steel Mill	Copper Mould Tube	2023	China
26	Hamza Steel	TC rings	2023	China
27	Horizon steel	RM Rolls	2024	China
28	Hunza Steel	Guide Assembly	2024	China
29	Hunza Steel	Guide Spare Parts 9.5 & 12.7mm	2024	China
30	Hunza Steel	Inlet and Outlet guides	2023	China
31	Hunza Steel	Inlet and Outlet Guide Spare parts	2024	China
32	Hunza Steel	Inlet and Outlet Guide Spare parts	2024	China
33	Hunza Steel	Refractory Items	2024	China
34	Hunza Steel	Rolls	2024	China
35	Hunza Steel	Rolling Products	2024	China
36	Hunza Steel	Spares & Consumables	2023	China



Unisons Steel Solutions

Reference List 2023-2024

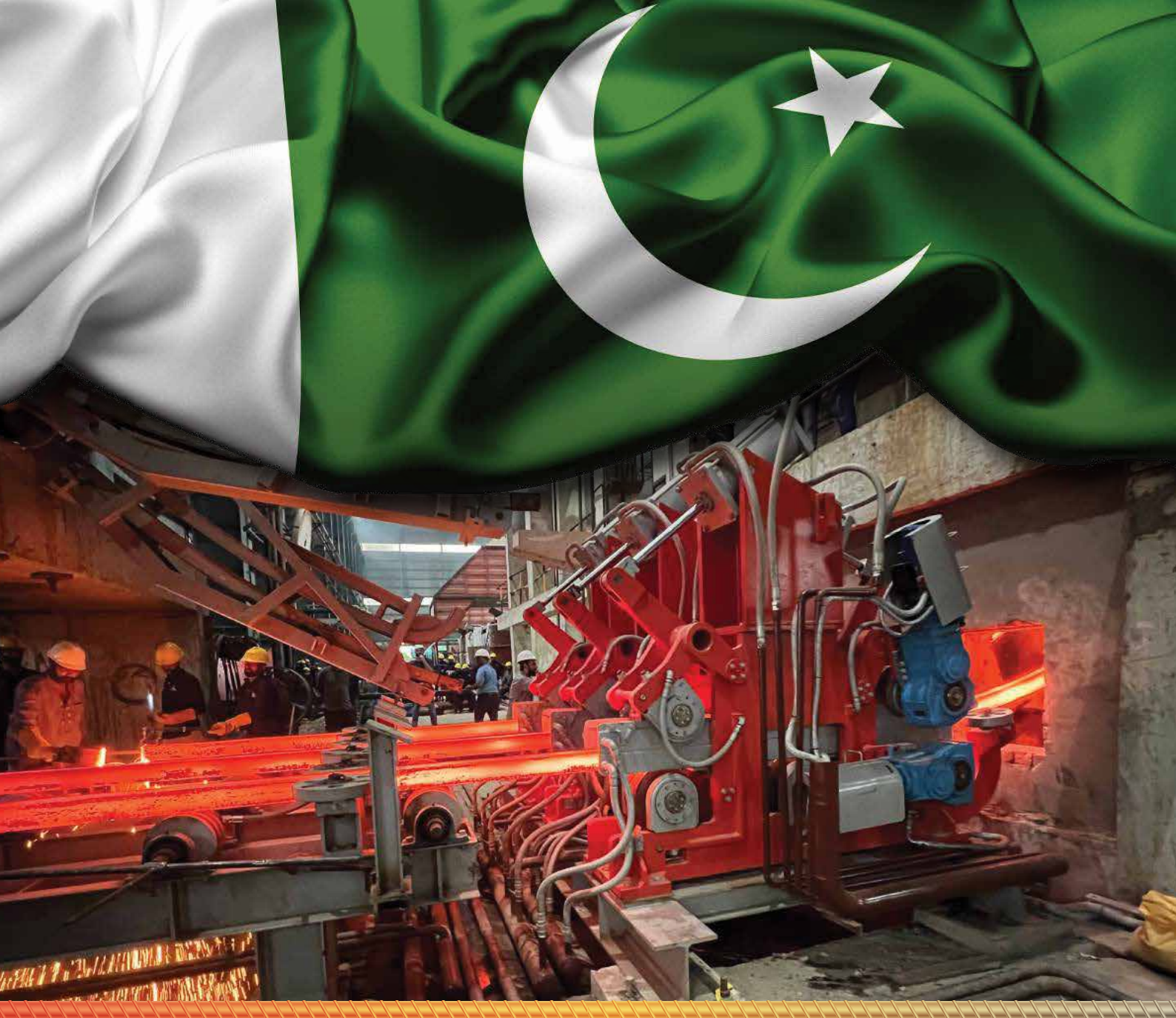
S.No	Company	Product	Year	Supplier
37	Hunza Steel	Spares & Consumables	2023	China
38	Hunza Steel	Stands	2024	China
39	Kamran Steel	DCS System	2024	China
40	Kamran Steel	Rolls	2024	China
41	Karachi Steel	Copper Mould Tubes	2024	China
42	Mughal Steel	Alloys	2024	Germany
43	Mughal Steel	Calcium Silicon	2023	China
44	Mughal Steel	Camera	2023	China
45	Mughal Steel	Chromite Sand	2024	South Africa
46	Mughal Steel	Chromite Sand	2023	South Africa
47	Mughal Steel	Gear Motors	2023	China
48	Mughal Steel	Hot Saw Blade & Disc Spring Washer	2023	UK
49	Mughal Steel	Hot Saw Blade & Disc Spring Washer	2023	China
50	Mughal Steel	Inverters	2023	China
51	Mughal Steel	MS Grade Pipe	2023	China
52	Mughal Steel	PCB Card & Modules	2023	China
53	Mughal Steel	Rolls	2023	China
54	Mughal Steel	Rolls	2023	China
55	Mughal Steel	Seal Set for Hydraulic Cylinder	2024	Italy
56	Mughal Steel	Sensor, Hydraulic & Seal Cylinder	2024	Italy
57	Mughal Steel	Silicon Carbide Rod	2023	China
58	Mughal Steel	SiMn	2023	UAE
59	Mughal Steel	Slipring Motors & Resistance Box	2023	China
60	Mughal Steel	Welding Gun	2024	China
61	Naveena Steel	Rolls	2024	China
62	Naveena Steel	Rolls	2024	China
63	Naveena Steel	Thyristor	2023	Italy
64	Pak Iron Re Rolling Mills	Copper Mould Tubes	2024	China
65	Pak Iron Re Rolling Mills	Motors 250	2024	China
66	Pak Iron Re Rolling Mills	Slide Gate set	2024	China
67	PAK Steel	Casting Powder	2023	China
68	PAK Steel	Copper Mould Tubes	2024	China
69	PAK Steel	DC Motor	2023	China
70	PAK Steel	Tundish Nozzles	2023	China
71	PAK Steel	Tundish Nozzle	2023	China
72	PAK Steel	Tundish Nozzle	2024	China











Unisons Steel Solutions

Reference List 2023–2024

S.No	Company	Product	Year	Supplier
73	PAK Steel	Tundish Nozzle	2024	China
74	Platinum Steel	Casting Powder	2024	China
75	Platinum Steel	Slide Gate Set	2023	China
76	Platinum Steel	Slide Gate set	2024	China
77	Platinum Steel	Slide Gate Set ,Tundish Nozzels & Nozzle - X	2023	China
78	Sheikhoo Sugar	Alumina Bricks	2023	China
79	Sheikhoo Sugar	Carbon Brushes	2023	China
80	Sheikhoo Sugar	Carbon Brushes	2023	China
81	Sheikhoo Sugar	Casting Powder	2022	China
82	Sheikhoo Sugar	Casting Powder	2023	China
83	Sheikhoo Sugar	Casting Powder	2023	China
84	Sheikhoo Sugar	Casting Powder	2023	China
85	Sheikhoo Sugar	Casting Powder	2024	China
86	Sheikhoo Sugar	Casting Powder	2024	China
87	Sheikhoo Sugar	Ladle Well Block	2023	China
88	Sheikhoo Sugar	K-90	2024	China
89	Sheikhoo Sugar	K-90	2023	China
90	Sheikhoo Sugar	Nozzle-X	2023	South Africa
91	Sheikhoo Sugar	Nozzle-X	2023	South Africa
92	Sheikhoo Sugar	Nozzle-X	2024	South Africa
93	Sheikhoo Sugar	Nozzle-X	2024	South Africa
94	Sheikhoo Sugar	Porous Plug	2023	China
95	Sheikhoo Sugar	Porous Plug	2023	China
96	Sheikhoo Sugar	Porous Plug	2024	China
97	Sheikhoo Sugar	Refractory	2024	China
98	Sheikhoo Sugar	Rolls	2023	China
99	Sheikhoo Sugar	Slide Gate Set	2023	China
100	Siddiqui Steel	Casting Powder	2023	China
101	Siddiqui Steel	Copper Mould Tube	2023	China
102	SJ Steel	Copper Mould Tubes	2023	China
103	SJ Steel	K-90	2023	China
104	SJ Steel	Ladle Well Block For IQC Slide Gate Set	2023	China
105	SJ Steel	Ladle Well Block	2023	China



Pakistan's leading design, engineering, layout & project execution company.

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-  3+ Dust Control Systems
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