



CORPORATE BROCHURE

IN IT'S EFFORTS TO MEET THE GROWING DEMAND FOR STEEL
IN QATAR AND IN THE REGION, THE COMPANY IS
WELL POSITIONED TO MEET THE REQUIREMENTS
WITH HIGHEST QUALITY STANDARDS



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COMPANY PROFILE

Qatar Steel Company was established in 1974 as the first integrated steel plant in the Arabian Gulf. Commercial production commenced in 1978 with the company becoming wholly owned by Industries Qatar (IQ) in 2003.

Today, Qatar Steel is widely recognized as a foremost leader in the steel industry, extending its pioneering commitment from an expansive mill site located in the heart of the progressive Mesaieed Industrial City - 45 kilometers south of the nation's capital, Doha. The company also operates a UAE based subsidiary - Qatar Steel Company FZE.

Inspired to meet the growing demand for steel in Qatar as well as in the region in general, Qatar Steel has embarked upon a series of initiatives aimed at increasing its production capacity.

State-of-the-art technically advanced expansion projects are designed to produce world class products. Over the years, Qatar Steel has successfully forged and reliability in all its products and service offerings. Central to this achievement has been the drive to exceed customer's expectations.

Facilities in the State of Qatar

Plant facilities includes a Midrex process based DRI/HBI combo mega module, electric arc furnaces and ladle refining furnaces, continuous caster, calcination plant, and by-products cold briquetting plant with the latest automated technology. In addition, with two rolling mills with capacity of 1,700,000 MT per annum for domestic and export markets equipped with the

latest technology which were producing a range of rebars from 08 to 40 mm complied with all international standards. Other auxiliaries include well equipped jetty facilities, main power substation, quality control center, research and sustainability department, maintenance shops, utility and clinic.

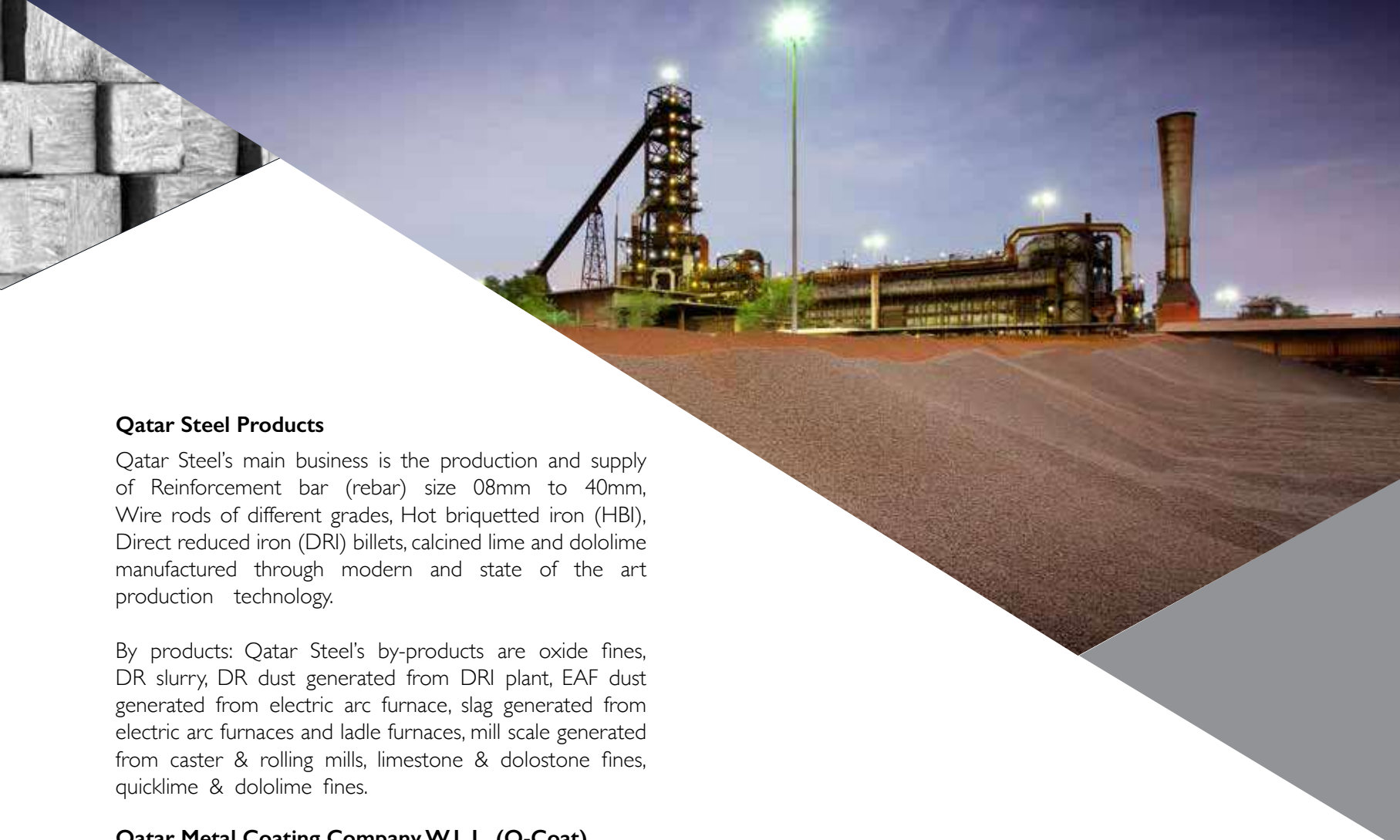
The plant with its office occupies an area of more than 1,350,000m², adjacent to which is a further 375,000 m² plot reserved for future development and expansion. The total committed and skilled workforce is of over 1,150 individuals in both operational and administrative roles of 25 different nationalities. Their tasks range from production, engineering, research & development, sales & marketing and distribution of company's products throughout the GCC region and worldwide.

Facilities in UAE

Qatar Steel Company FZE was established to meet the growing demand for high-quality steel rebar and wire-rod products within the GCC as well as in international markets.

The company operates two primary facilities at its 60,000 m² Jebel Ali Free Zone site that includes:

- Wire rod mill with design capacity of 200,000 MT per annum.
- Advanced Rebar mill from VAI-POMINI with design capacity of 300,000 MT per annum.



Qatar Steel Products

Qatar Steel's main business is the production and supply of Reinforcement bar (rebar) size 08mm to 40mm, Wire rods of different grades, Hot briquetted iron (HBI), Direct reduced iron (DRI) billets, calcined lime and dololime manufactured through modern and state of the art production technology.

By products: Qatar Steel's by-products are oxide fines, DR slurry, DR dust generated from DRI plant, EAF dust generated from electric arc furnace, slag generated from electric arc furnaces and ladle furnaces, mill scale generated from caster & rolling mills, limestone & dolostone fines, quicklime & dololime fines.

Qatar Metal Coating Company W.L.L. (Q-Coat), Mesaieed, State of Qatar

Qatar Metals Coating Company W.L.L. (Q-Coat) was established in 1990 as a joint venture between Qatar Steel Company and Qatar Industrial Manufacturing Company (QIMC) with a vision to provide a solution to concrete reinforcement corrosion with the use of fusion bonded Epoxy Coating on Qatar Steel rebars. The production capacity of the Q-Coat facility is 105,000 MT per annum.



MD & CEO'S MESSAGE

Modern societies are undeniably built on sturdy foundation of steel, one only has to look at where we live, play and work to recognize that steel is literally one of the foundational pillars of any modern nation. Proudly and tirelessly, Qatar Steel with unwavering dedication has been a stalwart contributor to our great nation in “Building the Future” since our establishment in 1974.

Our resolute commitment and alignment to the governing principals, outlined in the Qatar National Vision 2030, is reflected by our passion for growth and innovation. This strident march towards excellence, has elevated our steel business to stand shoulder to shoulder with global titans, earning recognition in numerous benchmark studies.

Our motivated and dedicated staff have ensured that our operations are recognized internationally for the safe operating environments and continued operational excellence, whilst our vision of producing sustainable steel for both our domestic and international markets is fortified by our unwavering commitment to the expectations of all our stakeholders. Recognizing the rapidly changing needs of our customers and intensified market volatility in an increasingly interconnected world. At the core of our strength lies our human resource being the company's greatest asset, and to that effect, we have recently undergone a comprehensive business restructuring, enhancing our agility and resilience while steadfastly focusing on sustainable steel production.

In solidarity with our nation, we stand ready to play a pivotal role in meeting future challenges and growth opportunities. With great enthusiasm, we look to the bright future of Qatar's National Vision 2030, and for steel, and remain committed to supporting our stakeholders in the years ahead.

I am excited about our future plans. Despite the volatility in our operating environment, our robust growth and sustainability strategies reinforce our business as key enablers positioning Qatar Steel's journey towards opulence.



Abdulrahman Ali A Al- Abdulla
MD & CEO

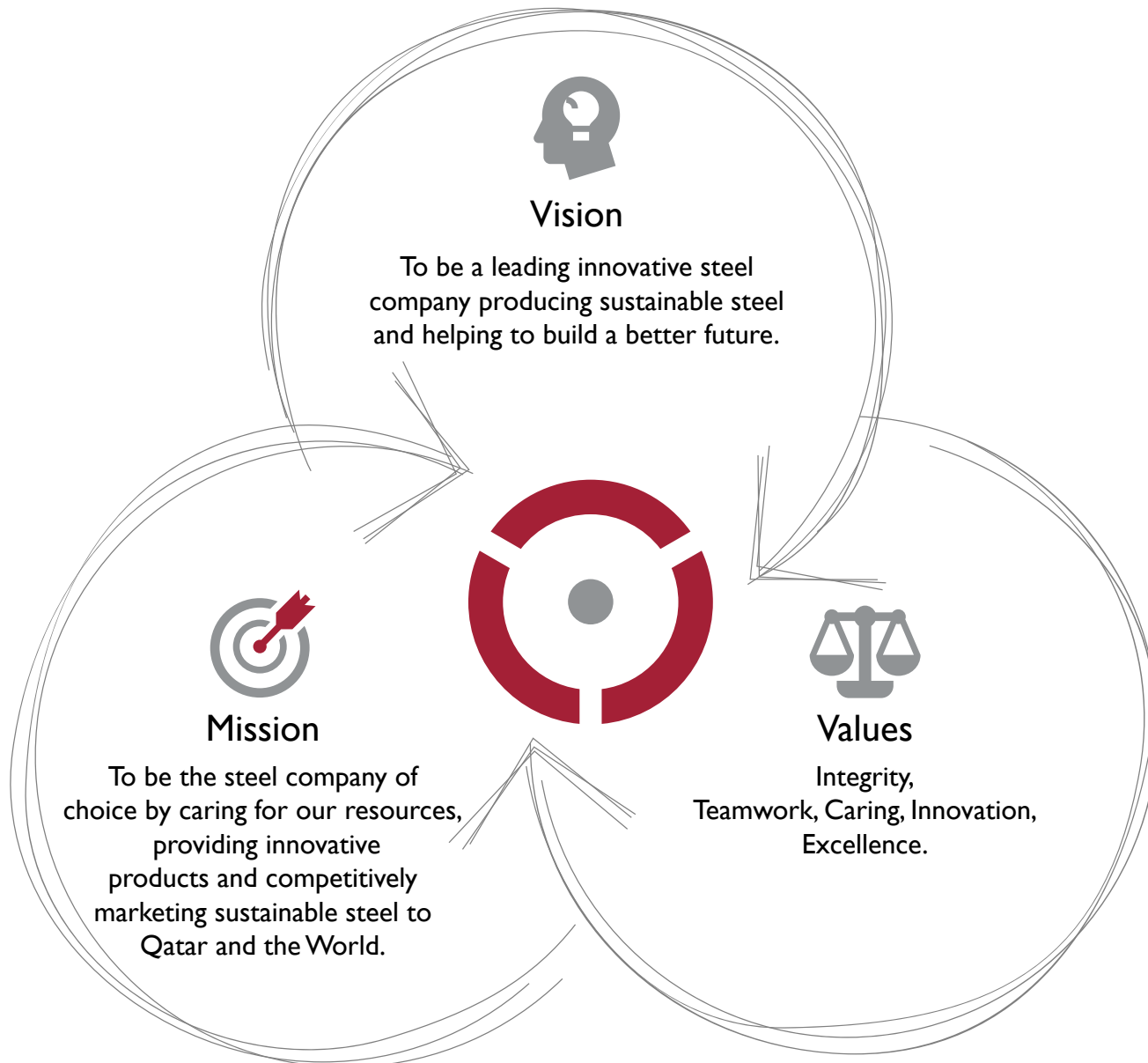


QATAR STEEL HAS GAINED A REPUTATION AS A MANUFACTURER OF SUPERIOR QUALITY PRODUCTS, DESIGNED TO MEET NATIONAL & INTERNATIONAL STANDARDS.

THE PRODUCTS ARE USED IN MAJOR PUBLIC AND PRIVATE PROJECTS IN THE REGION AND IN FAR REGIONS, MAINTAINING ITS ACTIVE PRESENCE IN THE GCC AND OVERSEAS IN ADDITION TO BEING THE MAJOR PLAYER IN THE DOMESTIC MARKET.

OUR PRODUCTS ARE DISTRIBUTED THROUGH A STRONG NETWORK OF TRADERS IN GULF REGION & OVERSEAS, WHO IN TURN SUPPLY THEM TO PROJECT OWNERS / END USERS.

OUR VISION MISSION AND VALUES





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☐	😊
☐	😞

CUSTOMER SATISFACTION

SETTING STANDARDS FOR CUSTOMER SATISFACTION

Brand building, customer centric and data driven method of communicating with the customers to maximize the impact on consumers and other end users have been our first priority in our endeavor to differentiate it from competitors.

The company ensures high sales performance year after year, drawing strength from the mutual relationship with its customers, diligent market research and efficient marketing strategies. While a robust technological network facilitates efficient handling of order management, the sales and shipping operation complement each other by meeting all customer expectations ensuring efficient, reliable and prompt delivery of products to customers.

Market research provides a fact-based foundation that facilitates actionable decision making in determining market development and penetration strategy to secure the competitiveness of the company at all times. It plays a crucial role for ensuring business success by reducing risks, identifying opportunities and providing valuable information about consumer behavior and competitive landscape.

Customer Relationship Management (CRM) in Qatar Steel works on a holistic approach. It delivers solutions and facilitates in establishing an individualized relationship with customers with an aim of improving customer satisfaction in our products and value-added services that we provide.



SATISFACTION
TRUST
ASSISTANCE
LOYALTY
SUPPORT
COMMUNICATION
FEEDBACK
SERVICE

WELL - EQUIPPED JETTY IN CLOSE PROXIMITY TO PRODUCTION FACILITIES.



STRATEGY AND SUSTAINABILITY

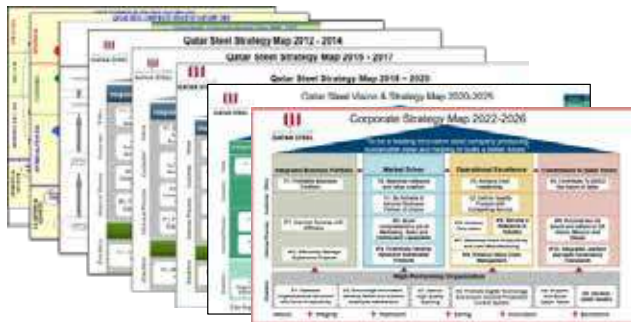
Our strategy remains focused on maintaining a robust business model centered on a competitive, innovative and sustainable product portfolio, both domestically and to the world, through concentrating on five strategic themes that form the basis of our corporate strategy map.

These five strategic themes, listed below, are key to driving our business and have been identified through extensive consultation with both internal and external stakeholders.

- High Performance Organisation
- Integrated Business Portfolio
- Market Driver
- Operational Excellence
- Commitment to QatarVision

Our dedication to sustainability has been an enduring journey that commenced more than a decade ago. We remain steadfast in our commitment to assess our most significant impacts and implement strategies aimed at continuous improvement. Our overarching objectives revolve around driving innovation in green steelmaking, establishing ourselves as the preferred sustainable steel supplier, reducing our environmental footprint, fostering a culture of zero harm, and nurturing our human capital while empowering the local community.

Best Practice & well established Strategy Management System using Balanced Scorecard



Inducted into
Palladium's Balanced
Scorecard Hall of Fame
for Strategy Execution
in October 2012



It's impact

- Strategy refreshed, communicated and understood throughout the organization
- Alignment of divisional/departmental and personal goals to the strategy
- Strategic GAP analysis for continuous improvement and cost optimization by managing portfolio of initiatives/ projects
- Linking strategic objectives to short-term targets and annual budgets
- Sustainability management integrated to strategy and performance management
- Risks linked to strategy map



DIRECT REDUCTION PLANT

Direct reduction is an iron making process for the new era. It utilizes natural gas to reduce iron ore to produce direct reduced iron (DRI). Qatar steel has adopted the gas based direct reduction process technology from Midrex in its integrated complex for iron-making. Reduction furnace and reformer are the two main facilities of Midrex direct reduction process. In the reformer, natural gas converting in to reducing agents (CO and H₂) through the reforming reactions and in the Midrex shaft furnace reducing agents used for producing iron from iron oxide (typically in the form of iron ore pellets or lump) through the reduction reactions.

DR-1 MODULE

The Midrex process DR module (DR-1), constructed and commissioned in August 1978, was the pioneer of its kind in the region, boasting a capacity of 400,000 MT per annum (now producing 800,000 MT per annum). Subsequently, Qatar Steel inaugurated its second module (DR-2) in April 2007, with a capacity of 1,500,000 MT per annum (now producing 1,600,000 MT per annum), thus elevating the total direct reduction plant capacity to 2,400,000 MT per annum.

Over its more than 40 years of operation, DR-1's production has displayed consistent improvement, surpassing 800,000 MT per annum since 2004. This accomplishment was realized by optimizing the equipment's inherent capabilities, making targeted investments to address bottlenecks, upgrading equipment for enhanced efficiency, and implementing various procedural and operational enhancements.

The DR-1 module was the first plant to achieve the highest total production among the Midrex 400 series plants (5.0-meter shaft furnace).

DR- 2 MODULE

A green field DRI/HBI combo dual discharge module with a capacity of 1,500,000 MT per annum was constructed and entered commercial production in April 2007. This facility incorporates all the modern features of an up-to-date Midrex Plant, including "SIMPAX" – an automated level-2 quality control module.

Qatar Steel's Direct reduction plants produce both Cold direct reduced iron (CDRI) and Hot briquetted iron (HBI). The DR-1 module exclusively produces CDRI, while DR-2 is a COMBO module that produces both CDRI and HBI.

The DR-2 module was the first plant to achieve a continuous operation days record of 250.96 days (6,023 hours) among the Midrex plants in the world. Midrex technologies recognized this achievement by awarding a Certificate of Excellence in the year 2019.

HOT BRIQUETTED IRON (HBI)

Hot briquetting has been an industrial practice for three decades and is the preferred method for preparing DRI for international storage and transportation. To produce HBI, hot DRI discharged from the MIDREX Shaft furnace at around 700°C is compressed into pillow-shaped briquettes with dimensions typically around 106x48x32mm. HBI boasts a density that is 50 percent higher than that of DRI pellets and lumps, which reduces susceptibility to re-oxidation. This characteristic enables HBI to be stored and handled without requiring special precautions, a recognition endorsed by the International Maritime Organization (IMO).



ELECTRIC ARC FURNACE

Qatar Steel was the first integrated steel plant in the Gulf region that utilized a high percentage direct reduced iron (80-90%) as a replacement of scrap for the production of steel from electric arc furnaces. The original plant started in 1978 with an aim to utilize abundant natural gas resources available in Qatar for reduction of iron ore as the major feedstock for electric arc furnaces.

Qatar Steel has three electric arc furnaces. i.e., EAF3, EAF4 and EAF5 which are Eccentric Bottom Tapping (EBT) type. EAF5 the latest one was commissioned in 2014 with 110 MT capacity.

EAF3, 80 MT EAF of EBT-type is powered by 70/84 MVA transformer comprising four strands curved mould billet casting machine that was commissioned in 1999 with an annual capacity of 550,000 MT of billets increasing total production to 1,140,000 MT in 2004. A ladle furnace was commissioned in October 2006 to facilitate increase in production whilst reducing the operating cost.

Embarking on another expansion program in 2005, Qatar Steel incorporated EAF4 with 80 MT EBT- type (78/90 MVA) along with a ladle furnace and a modern 4-strand curved mould, high speed billet casting machine equipped for special steel grades. This production line was commissioned in 2007 with a design capacity of 660,000 MT per annum.

The new green field SMS facility (EAF5) comprising of a high powered 110 MT EAF / LF / 6-strand billet caster with a capacity of 1,100,00 MT per annum was commissioned in Q1 2014.

FEW SALIENT FEATURES

- Introduction of oxygen injection technology to make use of chemical energy for speeding up of melting and reduction of electric energy and at the same time increasing the production rate
- Making use of remotely controlled gunning robot for faster and more efficient refractory repair

- Using ladle furnace as a secondary metallurgy between the EAF and continuous caster (CC) to achieve longer sequence casting, improved steel quality, and higher casting yield
- Improved automation systems including level 2 PLC controls for better and more consistent process control

EAFF5 ACHIEVEMENTS AND RECORDS

- Highest annual production in EAF5: 1,124,124 MT liquid steel in 2017

Achieve maximum daily production of 37 heats/day with 4,038 MT liquid steel in April 2023

Highest EAF5 wall refractories life of 1,204 heats on one shell compagin [for 39 days continuous operation without shut down].



CONTINUOUS CASTING PLANT

Continuous casting is the process whereby molten steel is solidified into a 'semi-finished' billet, bloom, or slab for subsequent rolling in the finishing mills. Since its inception, a high degree of automation has enhanced operational excellence, increase in throughput by over 50% and reduction in cost.

The continuous casting plant at Qatar Steel is equipped with two casting machines CC3 and CC4 with a total capacity of 700,000 MT and 800,000 MT per annum respectively. An additional continuous casting plant CC5 contributes an additional 1,050,000 MT per annum increasing the total production to 2,550,000 MT per annum. The continuous casting machines include the following specifications:

- CC3 commissioned in January 2000 is also of 4 strands but of curved mould type.
- CC4 commissioned in June 2007 is also of 4 strands with curved mould
- CC5 commissioned in 2014 is of 6 strand billet casters with curved mould and continuous straightening of strand.
- Mould Electromagnetic stirrer introduced in CC5 to improve the internal quality of Qatar Steel products.
- Continuous caster key achievements and records are: CC5 achieved and exceeded the plant design capacity in 2017 by achieving yearly productivity 1,115,184 MT.
- Steel Making achieved a new milestone record in CC5 casting sequence life in August 2023 with total of 280 heats casted on single tundish and total casting duration 213.3 hours which is considered one of the best records worldwide.
- Achieved milestone record of average yearly casting yield 99.23 % in CC5 through control of process parameters to minimize by-products.

THE SIZES OF BILLETS

Billet cross section and length:

- 150 x 150 mm square with 3.6 - 12meter billet length
- 130 x 130 mm square with 8 - 12meter billet length

Billets from CC3, CC4 and CC5 are cut by gas cutting equipment. A charge number is punched on each billet by a marking machine and dispatched for further processing to rolling mill for the production of rebar at Qatar Steel. Billets are also sold to local and international customers.

FEW SALIENT FEATURES

- Online flow control mechanism (Tundish Nozzle Change System) has been implemented in CC3, CC4 and CC5 in order to optimize process parameters and improve on the casting sequence length and yield.
- Ladle Slide gate system of Vesuvius LV11 was introduced to ensure safety in operation and to reduce the running costs.



ROLLING MILL

THE ROLLING MILL EPITOMISES QUALITY AND PRODUCTIVITY

Advanced technology to meet the market requirements, faster processing speed and higher surface quality are some of the prominent features of the rolling mill at Qatar Steel.

In line with its commitment to the policy of the company related to quality, productivity and safe environment, rolling mill is designed to ensure efficient and safe operation. The total annual requirements of billets are received from the CC plants.

They are delivered in batches on daily basis and charged at reheating furnace and rolled in different sizes according to the rolling plan made based on order received from Sales & Marketing

Qatar Steel, Qatar has two rolling mill plants namely Rolling Mill-1 & Rolling Mill-2 and the combined capacity is 1,700,000 MT per annum.

ROLLING MILL -1 (RM1)

RM1 comprised of a pusher type reheating furnace with twenty convention stands arranged in horizontal sequence was successfully commissioned in 1978 to be the first modern mill constructed in the gulf area with a design capacity of 350,000 MT per annum, with a size range from 10mm to 40mm, rebars. However, after various modifications the capacity has been doubled furthermore, a high-speed finishing block mill with complete finishing plant facilities was commissioned in 1996, to be a flexible mill enabling to increase the annual capacity to 700,000 MT per annum, with a size range from 08mm to 40mm. Recently two quenching boxes added to the mill for original and high-speed finishing block mills to achieve different steel standards to fulfill customer's requirements.

ROLLING MILL -2 (RM2)

In 2006, Qatar Steel successfully commissioned its ultra-modern RM2. The design capacity is 700,000 MT per annum and its product ranges from 10mm to 40mm rebars in diameter.

The mill consists of 130 MT perhour walking hearth reheating furnace, 18 conventional stands continuous rolling mill in horizontal vertical configuration. The mill adopts latest technologies, like MTC (minimum tension control), length optimization, slit rolling (triple bars & double bars). The mill also employs quenching process by Thermex Facility to achieve different steel standards to fulfill customer's requirements. However, after various modifications the capacity has been capitalized to 1,000,000 MT per annum, with a size range from 08mm to 40mm rebars at various lenght from 06 meter to 12 meter.

ROLLING MILL AT QATAR STEEL COMPANY FZE (UAE)

At Qatar Steel Company FZE, the bar rolling mill with installed capacity of 300,000 MT per annum has the latest automation features to produce rebars ranging from 08mm to 40mm in diameter at various lengths from 06 meter to 12 meter.



ROLLING MILL

WIRE ROD MILL - QATAR STEEL COMPANY FZE (UAE) OPERATIONS

The wire rod mill at Qatar Steel Company FZE (UAE) employs world class technology supported by renowned MORGAN, DANIELI, SIEMENS & MESTA with outstanding technical features including 40 MT per hour reheating furnace with automatic temperature control.

Wire rod mill was established in August 2003 to meet the growing demand for high-quality steel wire-rod products in the region with installed capacity of 200,000MT per annum.

Wire rod mill (WRM) with latest automation features, is capable of rolling low carbon, low alloy steel, and cold head quality wire rods of sizes 5.0 mm to 16 mm along with rebars in coils of sizes 07mm to 16 mm.

Qatar Steel Company FZE, has been successful in obtaining Certificate of Approval from CARES (CERTIFICATION AUTHORITY FOR REINFORCING STEELS) for complying with requirements of BS EN ISO 9001 2015 and the relevant CARES quality requirements for rebars in coils in diameters 08 mm to 16 mm in grade BS 4449 Grade B500B. Dubai Central Laboratory (DCL) of Dubai Municipality has granted Qatar Steel Company FZE a license to use 'DCL Conformity Mark' on its product and is the first company in the region eligible to use the DCL quality marking. Company has also secured management system certifications - ISO 14001-2015; ISO 45001-2018, BES 6001-Certificate of approval for Responsible sourcing of construction products; CARES certificate of approval for Sustainable Construction Steel.

WIRE ROD MILL LAYOUT	
Roughing Mill	9 Stands + Shear
Intermediate Mill	Repeater + 6 Stands + 3 Loopers
Pre-Finishing Mill	2 Stands H-V (Morgan) + 2 Loopers + Shear
Finish Mill	10 Stand - No Twist Mill (NTM) - Morgan - U.S.A
Water Boxes	With Equalization Zones Morgan Water quenching system for rebar in coil
Special Feature	Stelmor Conveyor - 6 Independent Zones, Reform Tub with ring distributor - Morgan U.S.A.
Coil Compactors	Auto & Manual



LIME CALCINATION PLANT

With the support of a diligent team, lime calcination plant was commissioned in Qatar Steel on December 2011 for producing calcined lime and dololime for captive consumption. Both high calcium and dolomitic lime is used as a flux during refining of the steel in EAF/LF. Lime is particularly effective in removing phosphorous, sulphur, silica and to a lesser extent, manganese.

It is also used to perform key functions, such as fine tuning of steel chemistry lowering of the oxygen content, reduction in the non-metallic inclusions, the adjustment of steel temperature, removal of additional impurities, and the prevention of reabsorption of impurities from slags.

Lime calcination plant was established in 2011 with total design capacity of 550 MT per day. In 2015, it was upgraded to 700 MT per day. Overall set up comprises of 2 state of art Vertical Twin D Shaft natural gas fired lime kilns and related material handling system from Cimprogetti, Italy to fulfill requirement of fluxes of calcined lime and dololime used in existing electrical arc furnaces & ladle furnaces. It is a process in which specially sourced raw limestone & dolostone are calcined at temperatures about 1,050° C to produce highly reactive and quality products like, calcined lime & dololime with optimum energy. Material handling system includes facility of crushing, screening & bagging to prepare the final product sizes as per requirement.

FEW SALIENT FEATURES

- ▶ Utilizes principle of Regenerative Heat Transfer for heat recovery from the waste gas.
- ▶ Consistent internal process improvements which helped to produce calcined lime & dololime in switchover mode operation.
- ▶ Introduced pulverizing facility for recycling of waste undersize limestone which enabled its utilization for oxide pallets coating in existing DR Plants.



QUALITY AND SUSTAINABILITY

Aligned with Qatar National Vision 2030 and corporate strategic objectives, Qatar Steel established facility to facilitate quality assurance, new product development, process improvement, cost reduction and sustainability & recycling.

Production of 'sustainable steel' is expected to reduce CO2 emissions and recycle wastes thereby protecting the environment and enhancing the core brand value of the company.

Qatar Steel's quality assurance system has been established to impact its operations across the board, from order placements to shipment of products.

All products including reinforcing bars and wire-rods are manufactured from selected raw materials with definite chemical compositions in order to meet & exceed quality requirements. Inspections are conducted throughout the manufacturing processes to ensure compliance to customers' requirements.

Qatar Steel has also obtained ISO/IEC 17025:2015 certificate to accredit its quality control laboratories that are equipped with modern computerized testing and analysis equipment, such as, optical emission spectrometers, x-ray fluorescence spectrometers, universal testing machines and LECO analyzers.

We assure uniform quality which satisfies all local and international standards' requirements. Qatar Steel's Quality Management System meets ISO 9001:2015 standards.

SAMPLE TESTING TO ENSURE PROCESS CONTROL

NEW TECHNOLOGY

Qatar Steel produces high strength reinforcing bars by Quench and Self Tempered (QST) method.

A ladle furnace ensures greater homogeneity of steel, resulting in greater uniformity of the mechanical properties and chemical compositions of our reinforcing bars.

THIRD PARTY CERTIFICATIONS

Consistent with Qatar Steel's aim for ensuring the quality of its products, reinforcement bars manufactured at facilities in Mesaieed and Dubai have received many prestigious product and sustainability certifications from Qatar standards, UK CARES, SASO- Saudi Arabia, KUCAS- Kuwait, SIRIM- Malaysia CEDD Hong Kong, ACRS Australia/New Zealand, and KIWA Germany & Netherlands, and DCL Certification.

The company satisfactorily operates a quality system which complies with the requirements of BS EN ISO 9001 and relevant CARES Quality and Operations Assessment Schedules.

NEW PRODUCT DEVELOPMENT

Under the new product development drive, Qatar Steel developed new wire rod and rebar grades such as cable armor quality, electrode quality and also high strength rebar (QS 600) to cater to the demand of GCC market.



QUALITY & SUSTAINABILITY

Sustainability/Environmental, Social, and Governance (ESG) Management

Qatar Steel's sustainability management approach serves as the cornerstone for embedding sustainability throughout the company. This approach is underpinned by the integration of several key elements, including the company's material topics, sustainability policy, sustainability framework, Corporate Strategy Map 2022-2026, and the Sustainability Roadmap 2022-2026.

These interconnected tools enable us to effectively measure our progress and continually enhance our sustainability initiatives. They guide the company's efforts not only at a local level, aligning with stakeholders' perspectives and the QNV, but also on an international scale, aligning with the United Nations Sustainable Development Goals (UN SDGs) and the World Steel Association Sustainability Development Charter (worldsteel).

Sustainability is at the core of our operations. We are committed to reducing our environmental footprint, conserving resources, and promoting social responsibility. Through our Environmental, Social, and Governance (ESG) initiatives, we aim to create value not only for our stakeholders but also for future generations. Qatar Steel also invests in state-of-the-art technologies and infrastructure that adhere to stringent environmental standards.

Qatar Steel collaborates with academia, peers from steel and other industries, regulators and other interested parties to explore the opportunities to create and enhance the value from our by-products and waste materials, following the principles of circular economy. Cold briquetting of DR fines and DR dust, recycling EAF dust for cement clinker production, recycling of refractory bricks and extracting steel from slag are some of the key initiatives in this regard.

Unlike scrap based steel plants which face emission-control problems resulting from heavy metals and toxic chemicals, Qatar Steel diligently complies with regulations that promote environmental care.

Our production is based on DRI, which employs the cleanest raw materials.



HEALTH, SAFETY, & ENVIRONMENT

Qatar Steel adopts a proactive approach through strategic Health, Safety, and Environment (HSE) initiatives that takes our business closer to our target of Zero Harm to people, and the planet. At Qatar Steel, our HSE General guidelines are designed to ensure the well-being of our employees, the communities we operate in, and the environment.

HSE MANAGEMENT SYSTEMS & PRACTICES

Our robust HSE Management System (MS) ensures that all aspects of health, safety, and environmental management are integrated into our daily operations. Periodic audits (both internal and external) are conducted to ensure that our operations are in accordance with the standards regulated by the Ministry of Environment and Climate Change (MoECC) and to meet the internally set targets. Our Compliance Management framework ensures that we operate within legal boundaries, continually improve performance while mitigating risks and ensuring transparency.

Qatar Steel obtained the Sustainable Reinforcing Steel Certification by CARES UK in 2011. Our HSE management systems are certified to the requirements of ISO14001:2015 and ISO 45001:2018.

OCCUPATIONAL SAFETY AND PROCESS RISK MANAGEMENT

Identifying, assessing, and mitigating risks is integral to our operational management and decision making. We employ state-of-the-art risk management techniques to safeguard our employees, assets, and the environment. Our commitment to process safety ensures that our operations are not only efficient but also safe. Qatar Steel has implemented a robust Process Safety Management (PSM) program based on US OSHA guidelines to prevent unwanted loss of containment events leading to major accident hazard scenarios such as toxic or flammable vapor cloud dispersion, localized fire and explosion in plants resulting in fatalities, major injuries, asset loss, environmental degradation and reputational damage.

SAFETY CULTURE, LEADERSHIP AND BEHAVIORAL SAFETY

Our safety culture is ingrained in every facet of our organization. We believe that true safety excellence begins with leadership. Our focus on the visible leadership and organizational safety culture helps in ensuring employee ownership and adoption

of our HSE procedures and regulations. Our behavioral Safety initiatives empower our employees to identify potential hazards, intervene and stop unsafe work when necessary, and contribute to a safer workplace through their actions.

HSE TRAININGS

Qatar Steel supports the development of a competent and skilled workforce that is empowered to manage the risks inherent to the company's activities. This is achieved through external and in-house HSE training based on the HSE training matrix and procedural requirements. Qatar Steel will soon start incorporating virtual reality (VR) in HSE training as part of the company's digital transformation vision.

EMERGENCY PLANNING AND RESPONSE

We have comprehensive emergency response contingency plans in place, meticulously developed to address a wide range of potential emergency scenarios. We undertake regular emergency preparedness mock-drills and table-top exercises for various scenarios including chemical and oil spills, fire rescue and evacuations, gas and molten steel leakages to ensure the availability and reliability of our emergency response resources and plans.

EMPLOYEE HEALTH AND WELLNESS

We prioritize the physical and mental well-being of our employees by offering wellness programs, healthcare benefits, and resources to support their overall health. With state-of-the-art facilities, experienced medical professionals, and a focus on preventive, promotive, curative, urgent as well as rehabilitative care, Qatar Steel medical Services stands a pillar of support, fostering a healthy & thriving community within our organization.

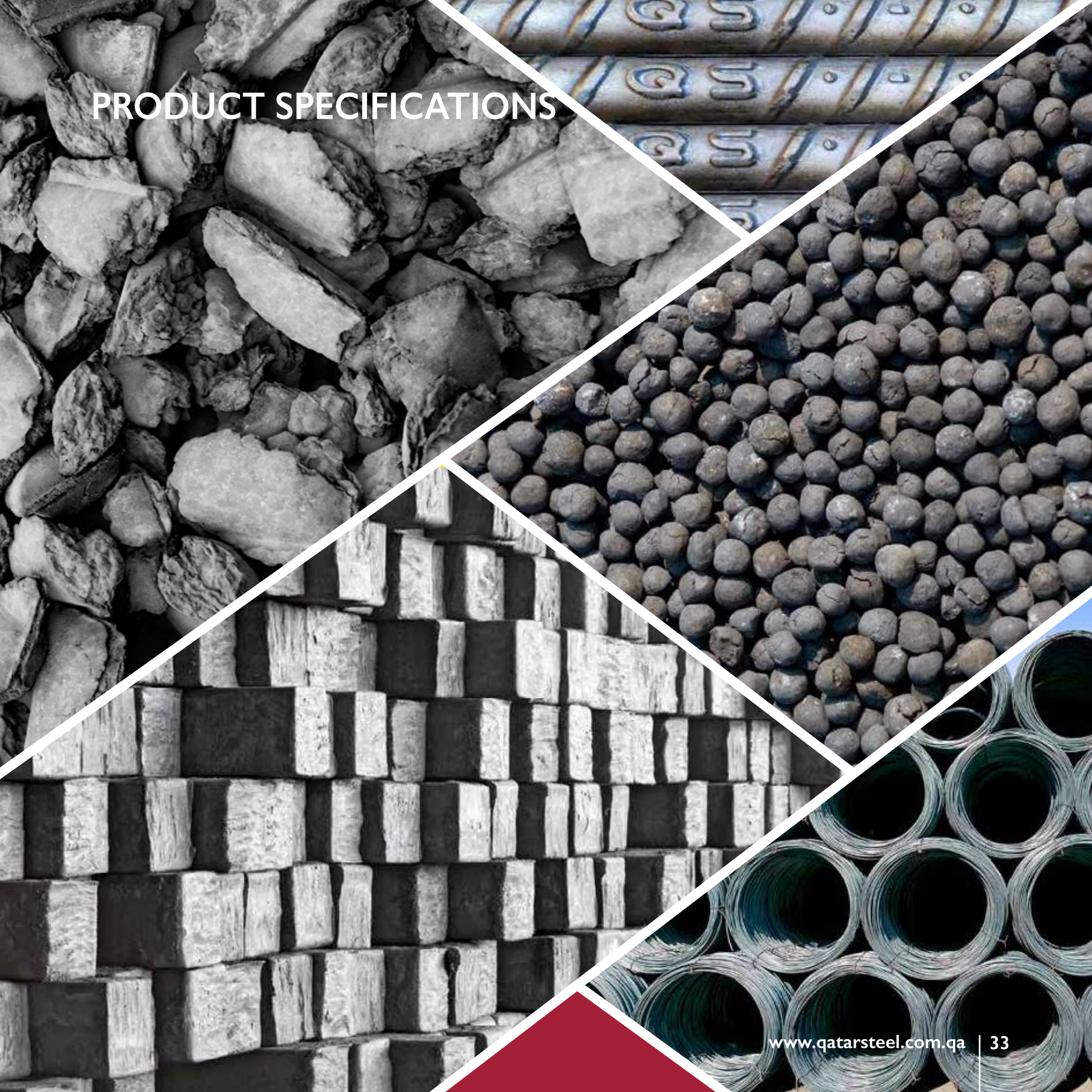
PRODUCT STEWARDSHIP

We take responsibility for our products throughout their lifecycle. Our Product Stewardship initiatives ensure that our steel products meet the highest quality and safety standards. We work closely with our customers to provide sustainable solutions that align with their needs.

Our commitment to HSE, compliance, risk management, and employee well-being sets us apart as a trusted partner in the steel industry. Join us in our journey to build a safer, more sustainable world through steel.



PRODUCT SPECIFICATIONS





DIRECT REDUCED IRON (DRI)

DRI PRODUCT SPECIFICATIONS



CHEMICAL COMPOSITION

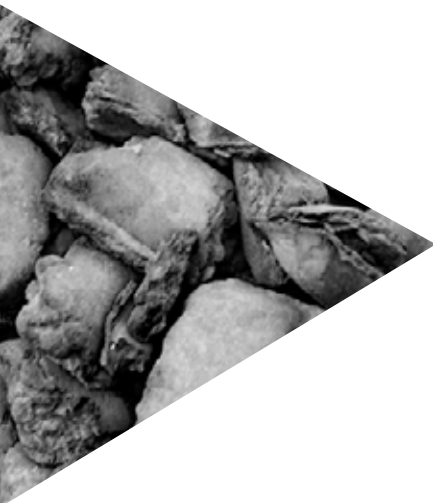
Parameter	Guaranteed	Expected
Total Iron (T.Fe)	91.0% Max	92.0%
Metallic Iron (M.Fe)	85.0% Max	86.0%
Metallization	93.0% Max	94.0%
Carbon (C)	2.2% Max	2.40%
Phosphorous (P)	0.06% Max	0.04%
Sulphur (S)	0.01% Max	0.002%
Total Gangue (CaO + Al ₂ O ₃ + MgO + SiO ₂)	4.8% Max	4.2%

Physical Analysis		
Bulk Density (tons/m ³)	1.6 -1.9	
Size under 5mm at loading port	5.0% Max	



HOT BRIQUETTED IRON (HBI)

HBI PRODUCT SPECIFICATIONS



CHEMICAL COMPOSITION

Parameter	Guaranteed	Expected
Total Iron (T.Fe)	91.00% Max	91.5%
Metallic Iron (M.Fe)	85.00% Max	85.5%
Metallization	93.4% Max	93.90%
Carbon (C)	1.30% Max	1.10%
Phosphorous (P)	0.05% Max	0.04%
Sulphur (S)	0.005% Max	0.001%
Total Gangue (CaO + Al ₂ O ₃ + MgO + SiO ₂)	4.80% Max	4.20%

Physical Analysis		
Bulk Density (tons/m ³)	2.4 -2.7	
Apparent Density (tons/m ³)	5.0 Min	
Size under ¼ inch at loading port (mm)	5.0% Max	

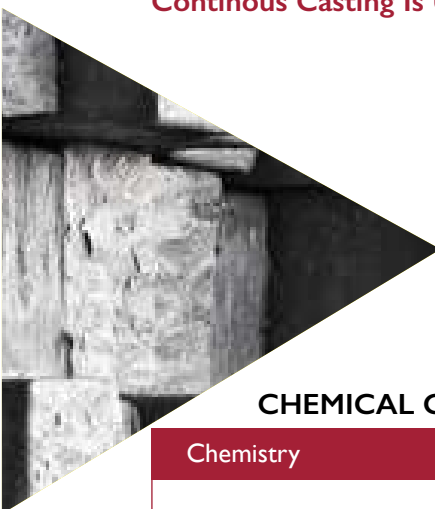
Note: The DRI /HBI is produced with respect to the above specifications for Qatar Steel melt shop, whereas for export it is produced as per the contractual specifications i.e., as required by the customer.



BILLET

BILLET PRODUCT SPECIFICATIONS

Continuous Casting Is Used To Manufacture Uniform And Clean Billets Quickly And Efficiently



CHEMICAL COMPOSITION

Chemistry	%C	%Si	%Mn	%P	%S	N(ppm)
	0.15 - 0.25	0.12 - 0.20	0.60 - 0.80	0.035 Max	0.035 Max	120 Max

Note: Tarp elements (Ni + Cr + Cu + Mo) = 0.30% Max

PHYSICAL PARAMETERS

Sr.	Item	Acceptance Criteria
1	Length	3.8 ~ 12 meter (±100mm) for 150 section 6.0 ~ 12 meter (±100mm) for 130 section
2	Section	150 x 150 mm ² or 130 x 130 mm ²
3	Face Length	± 3 mm
4	Rhomboidity *	5 % Max
5	Corner Radius	8mm
6	Straightness	Camber 5mm/meter
7	Bending	Not more than 5mm in 1 meter Not more than 30mm in 6 meter Not more than 60 mm in 12 meter
8	Angular Twist	Not more than 1 degree per meter and not more than 6 degree over 12 meter length
9	Cutting	Both ends will be Gas Cut
10	Identification	At the end of each billet cast number will be stamped or written by paint
11	Surface	The billets will be free from surface imperfection which impair the product quality such as longitudinal cracks, transverse cracks, deep ripple mark, scab & thick scale, slag patches, surface blow holes & internal quality should be free from harmful defects, like surface pinholes, blow hole, pipes, voids and internal crack. As Qatar Steel have open casting process, chances of minor surface pinholes are there and it will not impair the product quality
*	% Rhomboidity = (Dmax – Dmin) / Dmax x 100	

We supply high quality steel billets of various cross-sections and sizes, which enable us to meet the customer requirements and industry specifications.



REINFORCEMENT STEEL BARS (REBAR)

REBAR PRODUCT SPECIFICATIONS

Advanced technology is used to manufacture to meet the market requirements and superior surface quality are some of the prominent features of Qatar Steel's rebar.

Characteristics	QS/BS 4449 :2005 Grade B500B	BS 4449 :2005 Grade B500B	BS 4449 :2005 Grade B500C	SS 560 Grade B500B	SS 560 Grade B600B	CS2 Grade 500B	ASTM A615 Grade60	ASTM A615 Grade75	ASTM A615 Grade80	ASTM A706 Grade60	SASO ASTM A615:2021 Grade60	AS/NZS 4671 Grade 500N	DIN 488 Grade B500B	QS 600 (Ys > 600MPa)	ISO 6935-2 Grade B500B-R	MS 146 Grade B500B
Origin	Qatar	British		Singapore		Hong Kong	USA				Saudi Arabia	Australia New Zealand	Germany Netherlands	Internal	ISO	Malaysia
Chemical Composition																
Carbon (C) %	0.22 Max	0.22 Max	0.22 Max	0.22 Max	0.22 Max	0.22 Max	-	-	-	0.30 Max	-	0.22 Max	0.22 Max	0.32 Max	-	0.22 Max
Phosphorus (P) %	0.05 Max	0.05 Max	0.05 Max	0.05 Max	0.05 Max	0.05 Max	0.06 Max	0.06 Max	0.06 Max	0.35 Max	0.06 Max	0.05 Max	0.05 Max	0.05 Max	0.06 Max	0.05 Max
Sulphur (S) %	0.05 Max	0.05 Max	0.05 Max	0.05 Max	0.05 Max	0.05 Max	-	-	-	0.45 Max	-	0.05 Max	0.05 Max	0.05 Max	0.06 Max	0.05 Max
Nitrogen (N)ppm	120 Max	120 Max	120 Max	120 Max	120 Max	120 Max	-	-	-	-	-	120 Max	120 Max	120 Max	-	
Copper (Cu) %	0.80 Max	0.80 Max	0.80 Max	0.80 Max	0.80 Max	0.80 Max				-	-	-	0.60 Max			0.80 Max
CE %	0.50 Max	0.50 Max	0.50 Max	0.50 Max	0.50 Max	0.50 Max	-	-	-	0.55 Max	-	0.44 Max	0.47 Max		-	0.50 Max
Mechanical & Physical Properties																
Yield Strength MPa (min)	500 - 650	500 - 650	500 - 650	500 - 650	600 - 780	500 - 650	420	520	550	420 - 540	420	500 - 650	500	600	500	500 - 650
Tensile Strength MPa (min)	-	-	-	-	-	-	550	690	690	550	550	-	-	740	-	-
TS/YS (min)	1.08	1.08	≥1.15 < 1.35	1.08	1.08	1.08	1.10	-	1.10	1.25	1.10	1.08	1.08	-	1.08	1.08
Elongation (%) (min)	-	-	-	-	-	-	9	7	7	14	9	-	-	7	14	-
Agt (%) (min)	5	5	7.5	5	5	5	-	-	-	-	-	5	5	-	5	5
Bend Angle	90°	90°	90°	160 -180°	160 -180°	90°	180°	180°	180°	180°	180°	d≤16: 90° d>16: 180°	90°	180°	160 -180°	90°
Re-bend Angle	From 90° back by at least 20°	From 90° back by at least 20°	From 90° back by at least 20°	From 90° back by at least 20°	From 90° back by at least 20°	From 90° back by at least 20°	-	-	-	-	-	d≤16: From 90° back by at least 90° d>16: not applicable	From 90° back by at least 20°	-	From 90° back by at least 20°	From 90° back by at least 20°
Weldability																
	Weldable	Weldable	Weldable	Weldable	Weldable	Weldable	Non weldable	Non weldable	Non weldable	Non weldable	Non weldable	Weldable	Weldable	Non weldable	Non weldable	Weldable
Application																
	RCC	RCC	RCC in seismic zone	RCC	High rise towers/highly loaded RCC structure	RCC	RCC	RCC	High rise towers	RCC in seismic zone	RCC	RCC	RCC	High rise towers/highly loaded RCC structure	RCC	RCC

TECHNICAL FEATURES

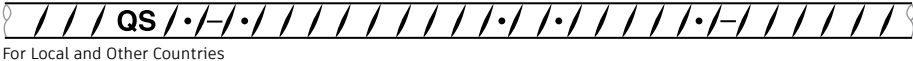
- BS4449:2005 Grade B500B / SS 560:2016 Grade B500B CS2:2012 Grade 500B rebar are produced with low carbon equivalent and weldable, whereas ASTM A615 Grade 60, Grade 75, Grade 80, ASTM A706 Grade 60, QS600, and ISO 6935-2:B500B-R are non-weldable.
- BS4449:2005 Grade B500B rebar have higher yield strength compared to ASTM A615 Grade 60 without compromising on ductility which reduce steel consumption and congestion in structure, in turn reduces overall cost of project.
- BS4449:2005 Grade B500B rebar have better bend performance, due to severe bend and re-bend angle. Rebar confirming to BS4449:2005 specification are subjected to fatigue testing and survive minimum 5 million stress cycles.
- QS600 rebar with higher yield strength > 600 MPa will reduce the steel consumption by around 20%, which in turn lowers the overall cost of structure. Using QS600 Grade can also lead to reduction in column size of heavily loaded structure and there is relief from rebar congestion.



REBAR MARKING

Deformed bars produced at Qatar Steel conform to various national and international standards such as, BS 4449:2005 Grade B500B/Grade B500C (Nuclear Grade & British), SASO ASTM A615:2015, ASTM A615 Grade 40/Grade 60/Grade 75/Grade 80 (American) & QS 600 (Qatar Steel High strength rebar).

The registered trade mark 'QS' is rolled on every deformed rebars at an interval of about one meter long with all identification marks.

BS4449:2005 Grade B500B SS 560:2016 Grade B500B CS2:2012 Grade 500B	 For Local and Other Countries
BS4449:2005 Grade B500B Nuclear Grade	
ASTM A615 Grade 60	
ISO 6935-2 B00B-R	
SASO ASTM A615:2021 Grade 60	
AS/NZS 4671 Grade 500N	For Australia 
DIN 488 Grade B500B BRL 0501 Grade B500B	For Germany & Netherlands 
MS 146:2014 Grade B500B	For Malaysia 

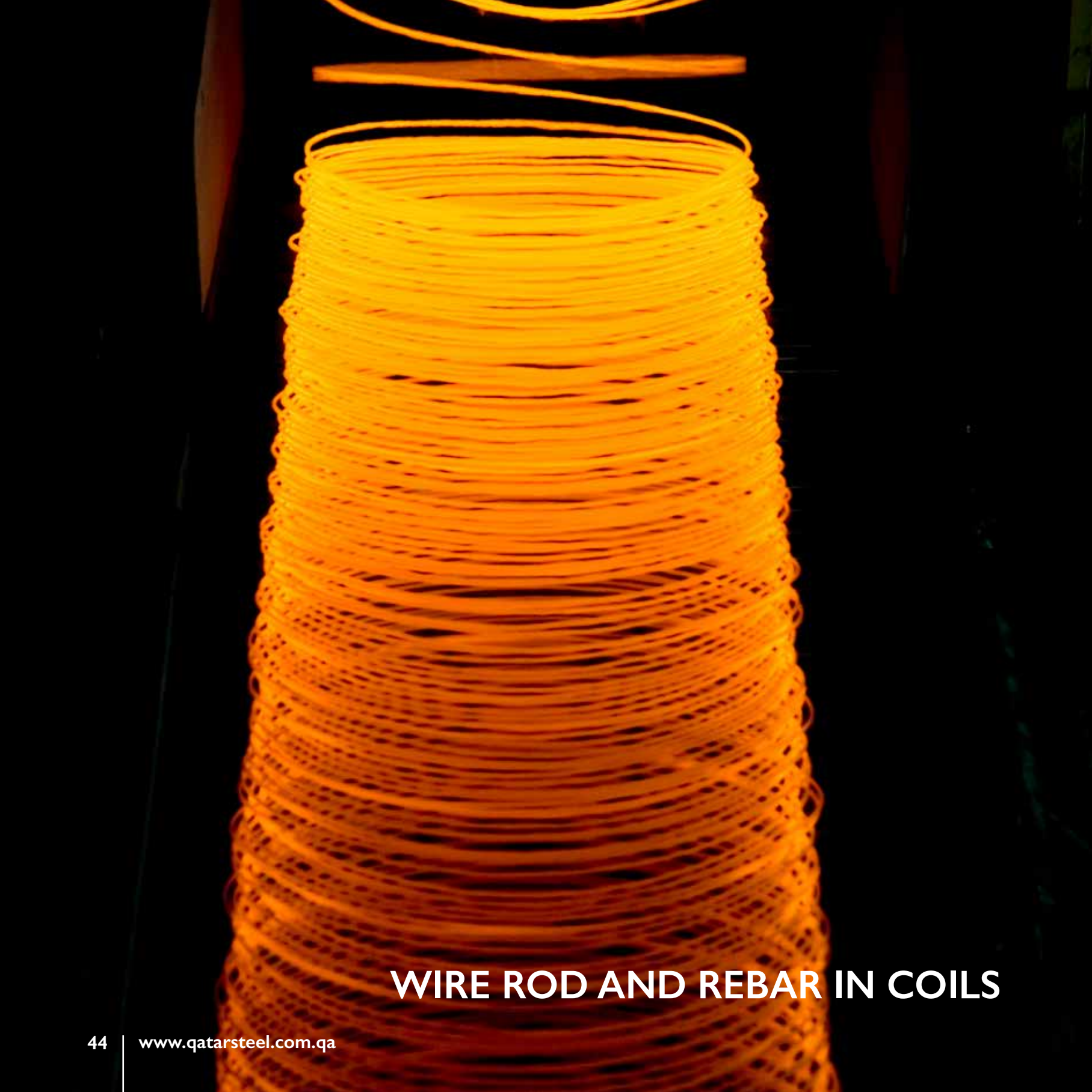
XX - Indicates the size of rebar

Approved DCL bar mark (Qatar Steel Company FZE-UAE)
BS 4449:2005 GradeB500B



Approved DCL bar mark (Qatar Steel Company - QATAR)
BS 4449:2005 GradeB500B



A large, tightly wound coil of glowing orange wire rod or rebar is the central focus of the image. The coil is cylindrical and composed of many layers of wire, creating a dense, textured appearance. The bright orange glow of the wire contrasts sharply with the dark, almost black background. Above the main coil, a few loose strands of the same glowing wire are visible, extending towards the top of the frame. The overall composition is vertical, with the coil occupying most of the space.

WIRE ROD AND REBAR IN COILS

WIRE ROD AND REBAR IN COILS - PRODUCT SPECIFICATIONS



Products	Size - MM										
Wire Rod	5.5	6.0	6.5	7.0	8.0	9.0	10	11	12	14	16
Rebar in Coil	-	-	-	7.0	8.0	-	10	-	12	14	16

Wire Rod Grades: SAE 1006 / SAE 1008 / SAE 1012 / SAE 1018 / SAE 1042 / SAE 1045

Rebar in Coil: ASTM A615 Grade 60 / BS4449: 2005 Grade B500B / ISO 6935-2

Coil Weight & Dimension	Metallurgical Standard
Inner Diameter (MM) : 850 - 950 Rebar in Coil	Decarburization : 1% max of wire rod diameter
Outer Diameter (MM) : 1100 -1200	Surface Defect : 1% max of wire rod diameter
Coil Weight (Kg) : 1050 -1200	Cold Upsetability : 67% (Billet route)

CHEMICAL & MECHANICAL PROPERTIES

Grade	%C	%Mn	%Si	%P	%S	%N	Ys-N/mm2	Ts-N/mm2	%El	%Agt.
SAE 1006	0.08 Max	0.25 - 0.40	0.15 Max	0.035 Max	0.025 Max	-	240 - 290	340 - 415	35 Min	-
SAE 1008	0.06 - 0.10	0.30 - 0.50	0.15 Max	0.035 Max	0.025 Max	-	250 - 300	350 - 425	30 Min	-
SAE 1012	0.10 - 0.15	0.30 - 0.60	0.15 Max	0.035 Max	0.025 Max	-	275 - 325	400 - 475	30 Min	-
SAE 1018	0.15 - 0.20	0.60 - 0.90	0.10-0.35	0.035 Max	0.025 Max	-	300 - 350	450 - 525	22 Min	-
BS4449:2005 Grade B500B	0.22 Max	0.60 - 1.00	0.35 Max	0.035 Max	0.025 Max	0.012 Max	500 - 650	Ys x 1.08 Min	-	5% Min

DIMENSIONAL TOLERANCES OF WIRE RODS

Standard	Wire Rod Size (mm)	Tolerance +/- (mm)	Out of Round (mm)	Remarks
QS FZE	5.5 - 16.0	0.20	0.30 MM	QS FZE Tolerance is Half of ASTM Tolerance
ASTM A510	5.5 - 16.0	0.40	0.60 MM	General Requirements

COIL IDENTIFICATION

Each coil will have tag with unique coil number and heat number.

PRODUCT QUALITY

Steel production is the heart of Qatar Steel's operations, and product quality is therefore of the highest importance. 'Quality' at Qatar Steel includes several important elements: full understanding of and conforming to the requirements of our customers; delivery of defect-free products; and timely service. We achieve quality via two broad strategies:

- Use of only high-quality raw materials as input for our operations.
- Implementation of rigorous quality-control systems.

All products, including reinforcing bars, are manufactured from selected raw materials with defined chemical compositions pre-tested for quality at different stages of the production cycle. We have long-term contracts with our suppliers for key raw materials that allow uninterrupted operations in our manufacturing facilities. Inspections of samples are conducted throughout the manufacturing process, with 'sample testing' of output performed to ensure compliance with quality standards and customer requirements. Qatar Steel also uses sophisticated quality-control laboratories to ensure delivery of high-quality products. Our labs are ISO17025 accredited, and are equipped with modern computerized testing and analytical instruments, including chemical testing analyzers and mechanical testing machines.



MAINTAINING PRODUCT QUALITY THROUGH CERTIFICATIONS

Use of stringent quality-control systems qualifies Qatar Steel for several international management systems and certifications, listed below.

Management System/ Certification	Description
BS EN ISO 9001:2015 Quality Management System	One of the world's most respected quality frameworks, implemented at Qatar Steel in order to effectively manage and meet customers' requirements and achieve improved customer satisfaction, staff motivation, and continual improvements. Qatar Steel has maintained its quality certification since 1995.
CARES Quality and Operations Assessment Schedule	The CARES Quality and Operations Assessment Schedule is centered around the essential elements of the quality management system, and additionally incorporates requirements for process control and product testing agreed upon by all relevant sectors of industry. The Schedule consists of the application of three main elements of CARES Product Certification: ● The manufacturers' management system as defined by BS EN ISO 9001. ● Full requirements of the relevant product standards. ● Control of the manufacturing process to produce a consistent level of compliance. Qatar Steel has maintained compliance with the CARES Quality and Operations Assessment Schedule since 2006.
ISO/IEC 17025: 2015 Laboratory Accreditation	This certification was attained in 2014. It specifies the general requirements for competence in carrying out tests and/or calibrations, including sampling. The accreditation covers testing and calibration performed using standard methods, non-standard methods, and laboratory-developed methods, and is designed for development of laboratory management systems for quality, administrative, and technical operations.
CARES Product Certification	CARES Product Certification was developed to meet the needs of customers using steel products for the reinforcement of concrete. CARES has acquired extensive experience in designing and operating certification schemes which cater to the reinforced concrete industry.
Qatar Standards Product Certification	Qatar Steel holds product certification from Qatar Standards which enables the product to be sold in domestic market and ensures the quality of product meets the national standard requirements.
Dubai Central Laboratory	Qatar Steel ensures that its products are aligned with the DCL requirement as per standard BS 4449:2005 Grade B500B.
KUCAS Certificate	Qatar Steel holds product certification from Kuwaiti Public Authority for Industry which enables the product to be exported in Kuwait market and ensures the quality of product meets the standard requirements.
KIWA Product Certification	Qatar Steel holds product certification from KIWA Germany & Netherlands which enables the product to be exported in Germany & Netherlands market and ensures the quality of product meets the standard requirements.
SASO Product Certification	Qatar Steel holds product certification from SASO which enables the product to be exported in Saudi Arabian market and ensures the quality of product meets the standard requirements.
SIRIM Product Certification	Qatar Steel holds product certification from SIRIM Malaysia which enables the product to be exported in Malaysian market and ensures the quality of product meets the standard requirements.
CEDD Certification	Qatar Steel holds product certification from CEDD Hong Kong which enables the product to be exported in Hong Kong market and ensures the quality of product meets the standard requirements.



LIME PRODUCTS



SPECIFICATION OF CALCINED LIME

CHEMICAL COMPOSITION

Elements	Guaranteed
Calcium Oxide (CaO)	92.0% Min
Magnesium Oxide (MgO)	2.0% Max
Silica (SiO ₂)	1.5% Max
Alumina (Al ₂ O ₃)	0.30% Max
Sulphur (S)	0.06% Max
LOI	5% Max
Moisture	1% Max

PHYSICAL SPECIFICATION

Physical Properties (Option1)	
Size Range	30 ~ 80 mm
Size above 80 mm at Loading Port	3.0% Max
Size below 30 mm at Loading Port	10.0% Max
Physical Properties (Option 2)	
Size Range	3 ~ 30 mm
Size above 30 mm at Loading Port	3.0% Max
Size below 03 mm at Loading Port	10.0% Max

Remarks: Qatar Steel ensures that product will be free from clay, dirt & other foreign materials

TYPE OF PACKING

The material will be packed in jumbo bags of 1.5 MT capacity

SPECIFICATION OF DOLOLIME

CHEMICAL COMPOSITION

Elements	Guaranteed
CaO	54.0% Min
MgO	32.0% Min
SiO ₂	2.5 Max
Al ₂ O ₃	0.5% Max
Phosphorous (P)	0.035% Max
Sulphur (S)	0.035% Max
Fe ₂ O ₃	0.5% Max
LOI (at Load Port)	5.0% Max

PHYSICAL SPECIFICATION

Physical Properties (Option1)	
Size Range	5 mm ~ 80mm
Size Under 5 mm at Loading Port	5.0 % Max
Size Above 80mm at Loading Port	3.0% Max

TYPE OF PACKING

The material will be packed in jumbo bags of 1.5 MT capacity.

SPECIFICATION OF PULVERIZED LIMESTONE

CHEMICAL COMPOSITION

Elements	Guaranteed
Calcium Oxide (CaO)	50.0% Min
Magnesium Oxide (MgO)	2.5% Max
Silica (SiO ₂)	1.0% Max
Alumina (Al ₂ O ₃)	0.5% Max
Phosphorus (P)	0.025% Max
Sulphur (S)	0.05% Max
Ferric Oxide (Fe ₂ O ₃)	2.0% Max
Moisture	0.5% Max

PHYSICAL SPECIFICATION

Physical Properties	
Size above 200 µm at Loading Port	4.0% Max

Remarks: Qatar Steel ensures that product will be free from clay, dirt & other foreign materials

TYPE OF PACKING

The material will be packed in jumbo bags of 1.5 MT capacity.



CORPORATE SOCIAL RESPONSIBILITY

We are committed to create a sustainable future for the world, leveraging our technologies, talent and teamwork, while being responsible and sensitive to the countries, communities and environments in which we work.

We believe Corporate Social Responsibility (CSR) as a critical mission that is at the heart of everything we do, how we think and who we are.

We are committed to integrating environmental, social and ethical principles into our core business, thereby enhancing long-term stakeholder's value. Caring for our employees, local communities, and our customers are significant for us.

Qatar Steel is involved in a wide range of community development and environment preservation activities and programs. Steering through various financial supports, we try to reach various organizations who research in cancer patients, facilitates supports to orphans old age homes, to name a few. We will continue to strengthen the legacy of Qatari leadership with trust for today, tomorrow and beyond.

For over four decades, we have demonstrated an ongoing commitment to function as a socially responsible business and we recognize the active role we can play in helping to build happier, healthier and sustainable society. We lead by establishing examples.

We work together with our stakeholders to make progress in driving community engagement, environmental stewardship, and philanthropic efforts, eventually enhancing the company's reputation, building stakeholder trust, and creating a meaningful social impact.







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