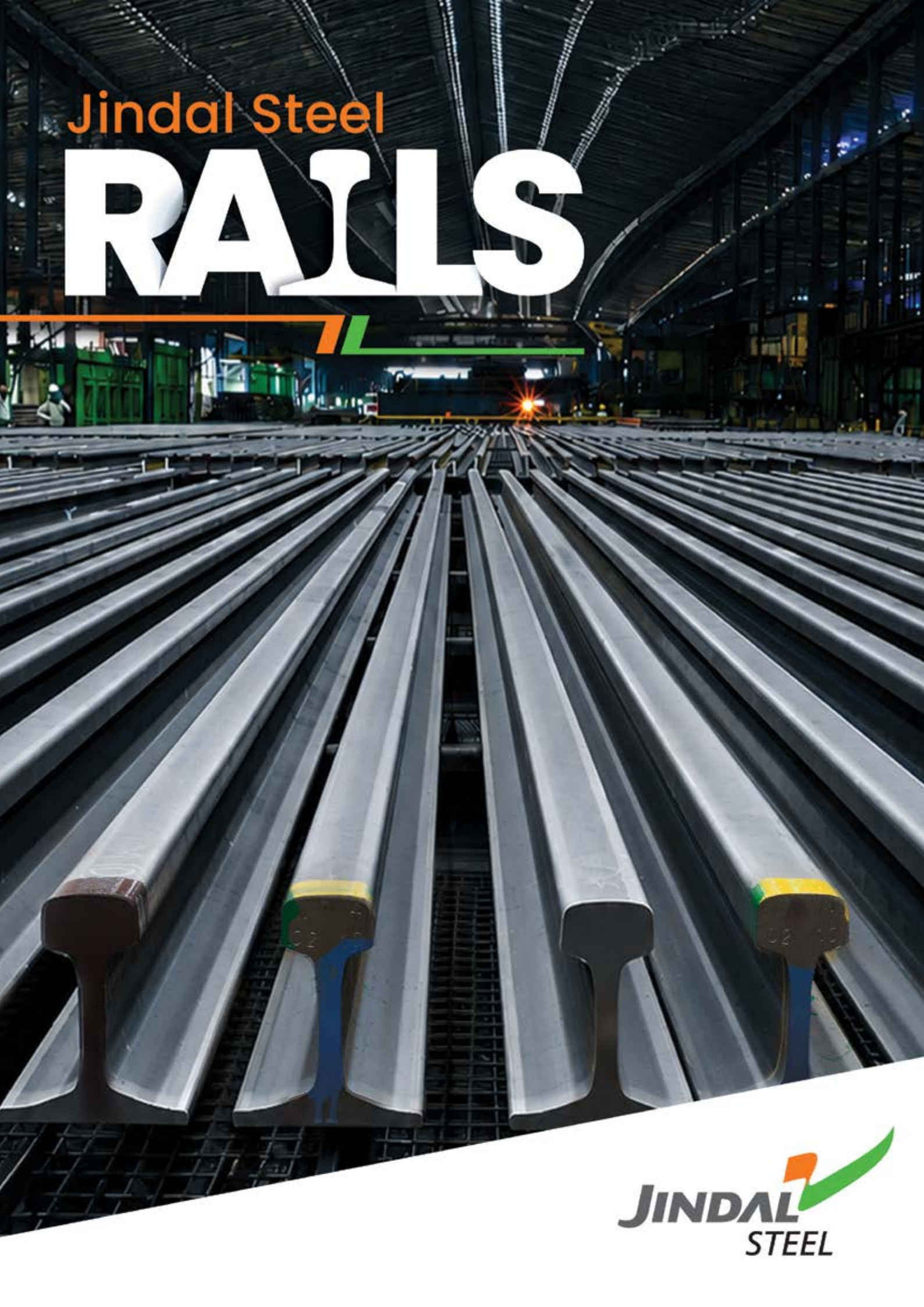

Jindal Steel
RAILS
JINDAL
STEEL





ABOUT **JINDAL STEEL LIMITED**

Jindal Steel is a prominent Indian business house with a significant presence in the steel, mining, and infrastructure sectors.

The company operates globally, with business operations spanning India and Africa. Under the leadership of Chairman Mr. Naveen Jindal, Jindal Steel has experienced remarkable growth, offering a product portfolio that caters to the entire steel value chain and supports the “Make in India” vision. The organization emphasizes innovation, enhancing capabilities, and enriching lives to drive its growth and commitment to building a self-reliant nation. With an investment of more than 12 billion dollars across the globe, Jindal Steel has received numerous awards for its innovative business and social practices.

The company offers a wide range of customized and standardized high-quality steel products from its integrated steel plants in Angul, Raigarh and Patratu, India, utilizing cutting-edge manufacturing facilities. Jindal Steel focuses on innovation, excellence, and sustainability, delivering eco-friendly and high-performance steel solutions. Its diverse product portfolio serves various sectors, including infrastructure, construction, and automotive, establishing a strong presence in over 80 countries.



INDIAN RAILWAYS & BEYOND

Indian Railways is in transformation mode. Indian Railways is implementing various development projects to upgrade infrastructure and operate trains at an average speed of 160 km/h and high speeds of over 300 km/h.

Upgrading of track and signaling, infrastructure development, higher axle load, improvements in safety and passenger experience are key focus areas of Indian Railways.

Also, urbanization and rapid development in cities like Delhi-NCR, Kolkata, Mumbai, Chennai, Bangalore, Hyderabad, Jaipur, Kochi and Ahmedabad, etc. have showcased the importance of a rapid intra-city transportation system. The upcoming metro rail projects in various cities with more than 2,000 km of routes would just be a beginning.



JINDAL STEEL:
COMPLETE RAIL
SOLUTION PROVIDER

Jindal Steel's forte in innovation and market leadership is clearly manifested in its rail manufacturing operations. Building on its 33 years of steelmaking expertise and its world-class rail-making facility, the company works closely with rail customers to develop products that address their needs.

Jindal Steel operates one million tonne per annum capacity rail mill at its 3.6 MTPA integrated steel plant at Raigarh in Chhattisgarh. As a diversified steel manufacturer, it supplies high-performance rail products in various specifications like UIC, IRS, EN and other international specifications. The Company has the capability to supply long rails rolled up to 121 m and from its long rail welding plant up to 260 m. Jindal Steel can provide rails in both normal and head hardened grades.

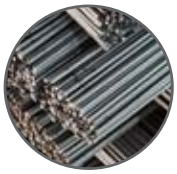
Other product lines of Jindal Steel include a wide range of plates, hot-rolled coils, cold-rolled coils, sheets, parallel flange beams & columns, angles, channels, square & rectangular hollow sections, round bars, speedfloor, cast rounds, value added billets, blooms & slabs, structural-TMT rebars, wire rods and extensive fabrication facilities to support all rail sector construction and engineering projects.



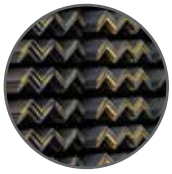
MAKE IN INDIA
ATMANIRBHAR INDIAN RAILWAYS

Jindal Steel, in pursuit of supporting the vision of Atmanirbhar Bharat through the "Make in India" policy, is building futuristic infrastructure and adopting the latest and most efficient technologies to help the rail industry rise to the challenges of rapid expansion, higher traffic volumes, higher axle loads and faster train speeds.

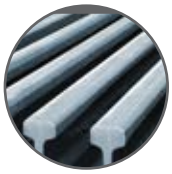
PRODUCT RANGE



TMT Rebars
[Capacity – 2.4 MTPA] – in Gr Fe500D, 500S, 550D, 600 & diameters of 6 to 50 mm, Plates – (2.5 MTPA) – in Gr E250 to E550 Br, Bo & C/IRS M41 – Corten, ASTM A588, normalized grade steel



Structural Sections
(Angles, Channels, H Beam Sleepers, Beam Columns) Approved by CORE & RDSO [Capacity – 0.6 MTPA]



Rails
60E1, 60E2, IRS52, UIC54, UIC60, GR 880/R260 & GR 1080HH/ R350HT & ZU-1-60/60E1A1 as per EN13674, IRT-12 (Capacity – 1.0 MTPA)



Spring Steel Rounds
In Gr 55Si7 & 60 Si7 (Dia 20 to 36mm),
Approved by RDSO



Fabricated Bridge Girders
and other structures, approved by RDSO [Capacity – 0.18 MTPA]



Hot Roll Coils (HRC)
SMS SIEMAG's Angul Hot Strip Mill produces 6 MTPA of 1.00mm x 1680mm coils with superior quality.



Hollow Section
Manufactured using advanced Direct Forming Technology, hollow sections deliver high strength, dimensional precision and superior structural stability.



Plates
India's first plate mill, producing coils and plates with advanced steel refining and rolling facilities.

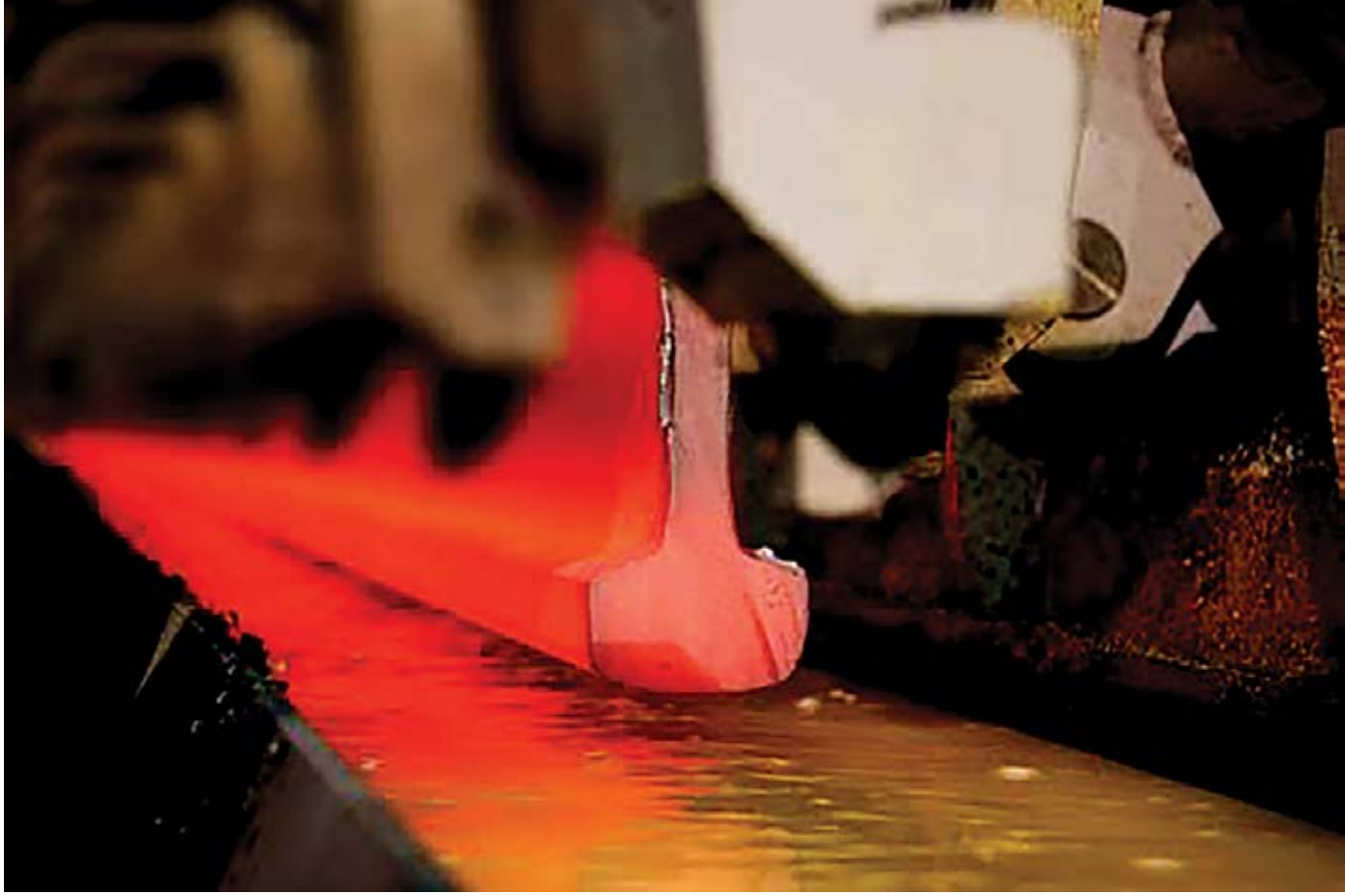


EN Forged Rail
60E1A1 Rail

DOWNSTREAM PRODUCTS



- **CR Coils (Cold Rolled Coils)**
- **CR Full Hard Coils**
- **HRPO (Hot Rolled Pickled & Oiled)**
- **HDGI (Hot-Dip Galvanized Steel Coils)**
- **GL Coils (Galvalume Coils)**
- **PPGL (Pre-Painted Galvalume Coils)**
- **PPGI (Pre-Painted Galvanized Iron/Steel Coils)**



PROVEN PERFORMANCE:

India has the 4th largest rail network in the world and has varied topography. Jindal Steel rails have proven their performance in various geographies, curves, gradients, speeds, and short distances with frequent braking and acceleration in India. Jindal Steel is the first private manufacturer to earn status as a regular supplier of rails to Indian Railways.

The company has supplied over 1.1 million metric tonnes of rails to prestigious projects of Indian Railways, Rail Vikas Nigam Ltd, IRCON, dedicated freight corridors and others in India and international projects such as Sri Lanka Railways, Bangladesh Railways, Algerian Railways.



CLEAN STEEL

One of the most important requirements for rail steel is its cleanness. Inclusion-free, homogeneous and sound steel is vital for safe, durable rails. Inclusions in the finished rail can cause cracks which might grow and cause the rail to fracture.

With Jindal Steel's advanced steelmaking and continuous casting practices, we ensure the cleanest steel. The effectiveness of the steel making process is affirmed with modern non-destructive testing techniques capable of finding defects or inclusions in 100% rail length.

RAIL ROLLING

Jindal Steel's rail mill produces superior-quality, some of the world's longest finished rails, measuring 121 m in various specifications, including IRS-T-12-2009 certified by RITES.

From the walking beam type reheating furnace (250 MT/hr), the uniformly heated blooms are immediately passed through the high pressure primary de-scaler to achieve scale-free surface with descaling pressure of 300 bar. The rolling process includes breakdown stand (BD), intermediate stand (KVI), Universal tandem mill. After rolling, the rails are stamped and cut into the required lengths.

Jindal Steel has a walking beam type cooling bed of 123 m to supply rolled rail panels of up to 121 m with automatic conveyors.





Manufacturing Process:

Controlled chemistry

Process route for rail production

REHEATING FURNACE:

MAKE: Davy, U.K.

PURPOSE: Uniform heating and soaking of the blooms is ensured in a walking-beam reheating furnace, equipped with all the three zones. Other unique features include furnace skid design of skewed configuration enabling uniform heating and soaking of all surfaces and a level-2 Distributed Control System (DCS).

HIGH PRESSURE DESCALER

MAKE: SGTT HYDRAULIK, Germany

PURPOSE: This unit is positioned at the exit of the reheating furnace prior to the entry of the breakdown stand. With design pressure of 300 bar it ensures uniform descaling of the bloom.

BREAKDOWN MILL:

MAKE: Schoemann Siemag, Germany.

PURPOSE: It is a reversible type 2Hi Rolling Mill. This mill breaks the initial cast structure of bloom charged. Maximum Roll force is 9,000 kN.

KV 1 MILL; (INTERMEDIATE MILL)

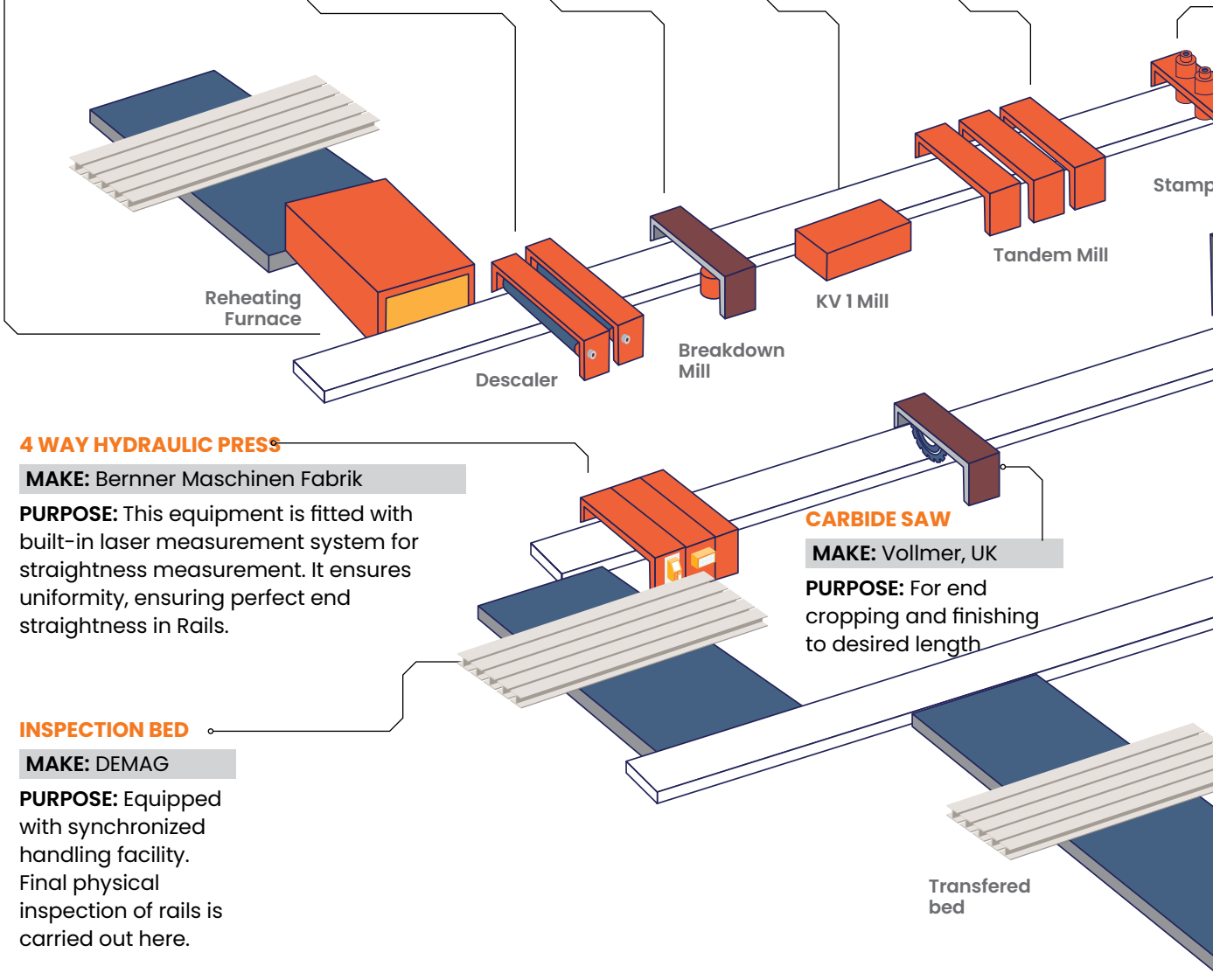
MAKE: Schoemann Siemag, Germany.

PURPOSE: This mill is for intermediate passes having roll force 6500 kN.

TANDEM MILL

MAKE: SMS Meer, Germany

PURPOSE: This mill works on the principle of universal rolling technology with automatic roll gap adjustment for precision rolling. Closed tolerances and closed top mill stands with internal spaces sealing.



4 WAY HYDRAULIC PRESS

MAKE: Bernner Maschinen Fabrik

PURPOSE: This equipment is fitted with built-in laser measurement system for straightness measurement. It ensures uniformity, ensuring perfect end straightness in Rails.

CARBIDE SAW

MAKE: Vollmer, UK

PURPOSE: For end cropping and finishing to desired length

INSPECTION BED

MAKE: DEMAG

PURPOSE: Equipped with synchronized handling facility. Final physical inspection of rails is carried out here.

Lower levels of dissolved gases:

STAMPING

MAKE: LENZING TECHNIK, Austria

PURPOSE: Used for online hot stamping of rails, this machine is able to stamp the rails, travelling up to a maximum speed of 5m/s on a roller conveyor, controlled by the rolling mill automation system which manages the entire production line.

HEAD HARDENING

MAKE: SMS Meer, Germany

PURPOSE: This is a heat-treatment method used to harden the rail head suitable for high axle loads, high-speed trains

ONLINE PROFILE CHECK:

MAKE: Technogama

PURPOSE: Technogama supplied profile check machine is for monitoring profile geometry.

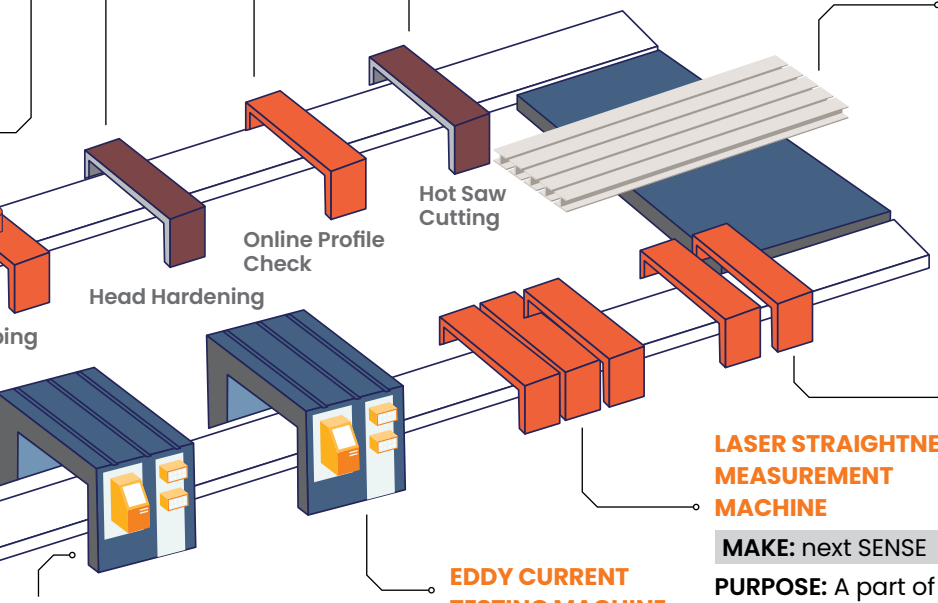
HOT SAW CUTTING:

MAKE: SMS Meer, Germany

PURPOSE: It is used to cut the rolled rails into the ordered length with the help of cutting saws.

WALKING BEAM COOLING BED:

The rails are positioned on the cooling bed with camber. The pre-cambering facility ensures reduced internal stress generation during straightening and elimination of handling defects.



SMS MEER; STRAIGHTENING MACHINE

PURPOSE: The two plane straightening machine uses sequential processing to ensure straightness.

LASER STRAIGHTNESS MEASUREMENT MACHINE

MAKE: next SENSE

PURPOSE: A part of the NDT facility, it is used to check the straightness of the Rails.

EDDY CURRENT TESTING MACHINE

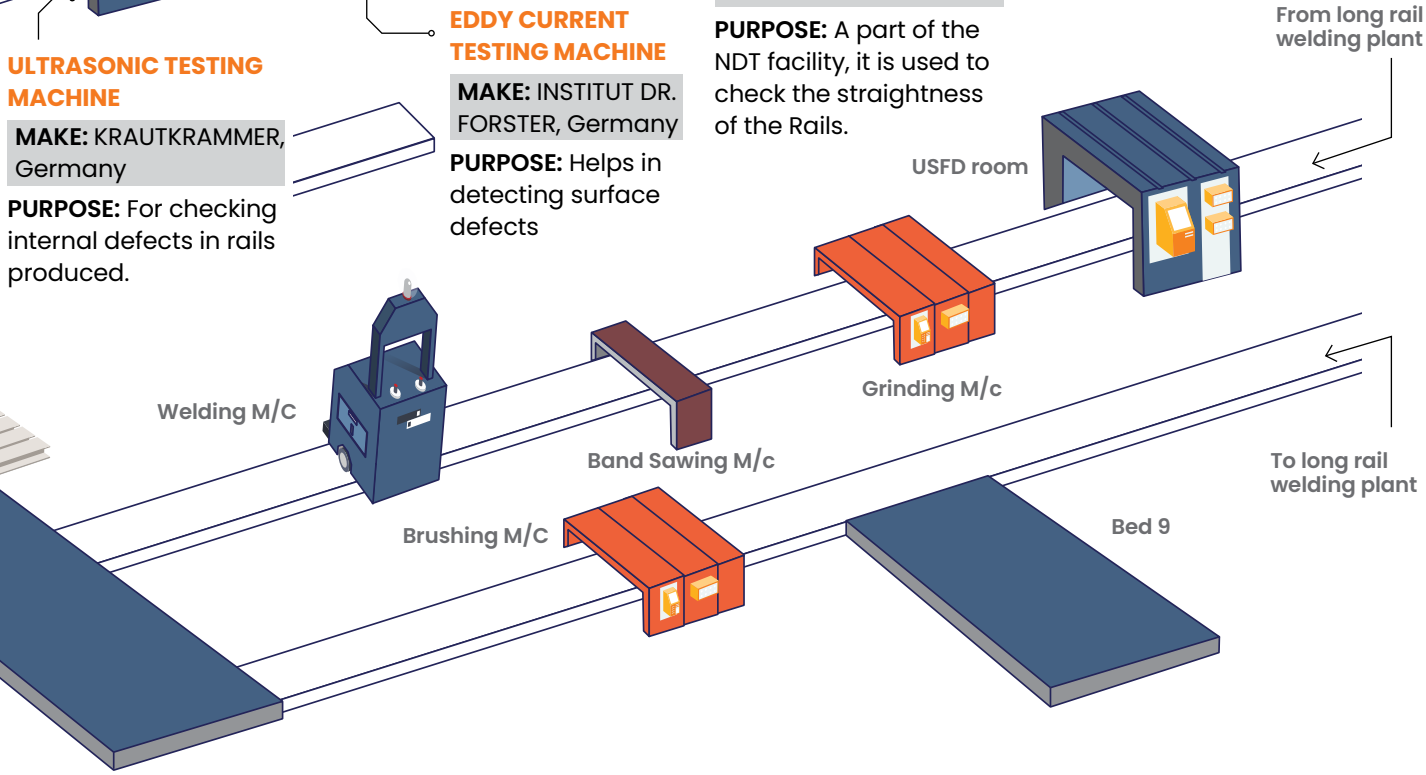
MAKE: INSTITUT DR. FORSTER, Germany

PURPOSE: Helps in detecting surface defects

ULTRASONIC TESTING MACHINE

MAKE: KRAUTKRAMMER, Germany

PURPOSE: For checking internal defects in rails produced.





R&D FACILITY AND LABORATORY



At Jindal Steel we have established a multidisciplinary R&D department that is sufficiently agile to adapt to evolving requirements and continual improvement. It has a dedicated R&D team who have succeeded in developing cost-effective and energy- efficient processes and superior quality advanced steel products.

R&D at Jindal Steel is supported by NABL-certified, well-equipped laboratory which also helps us to ensure quality of finished product. Rail steel undergoes a series of tests to ascertain the quality of finished product as well as consistency of processes. Broadly classified as acceptance tests and qualifying criteria tests:

A. QUALIFYING CRITERIA TESTS

A residual-stress measuring instrument is used to measure the residual stresses present in the rails



Fig: Typical Residual Stress Testing Technique used

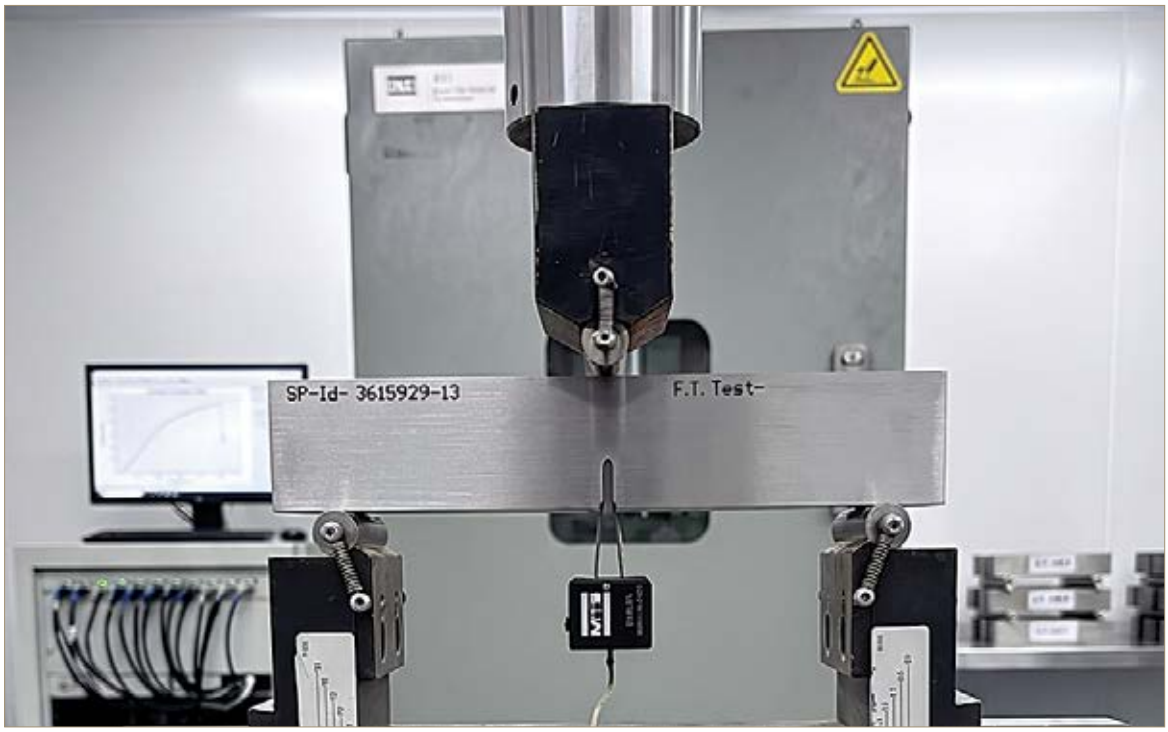
FATIGUE TEST is used to measure the ability of rails to resist multiple load cycles.



FRACTURE TOUGHNESS MEASUREMENT is used to evaluate the ability of rails to resist fracture propagation through pre-existing internal flaws.



Fatigue Crack Growth Rate (FCGR) tests require the use of standard specimen geometries which include compact tension, single edge notch bend, single edge notch tension and center crack tension specimens. To achieve this, pre-cracking is conducted at a stress ratio lower than that used in the subsequent FCGR test.



TESTING FACILITY FOR WELDED-HEAD HARDENED RAIL

Weld Bend Fatigue Testing Facility – Jindal Steel

Jindal Steel proudly introduces its state-of-the-art weld-bend fatigue-testing facility, designed to ensure the highest standards of durability and performance in welded rails. Equipped with advanced instrumentation and automated control systems, the facility enables precise evaluation of fatigue life under cyclic loading conditions. This addition reinforces our commitment to innovation, safety, and quality assurance across head-hardened (metro) rail applications. This test is mandatory for the rail welding process approval.



B. ACCEPTANCE TESTS

These tests are carried out on every heat.

Product chemical analysis:

A spectrometer is used to measure the chemical composition of the product samples.

Tensile test for YS, UTS, % Elongation (Universal Testing Machine):

UTM serves to evaluate the Yield Strength (YS), Ultimate Tensile Strength (UTS) and elongation of the rail samples.

Hardness Test:

The Brinell hardness machine is used to measure the hardness of rail steel.

Inclusion Rating:

This test is carried out to assess the number and size of inclusions present.

Hardness Distribution:

This test shall be carried out as per clause 19.2.3 of IRS-T-12:2009 with latest amendment on heat treated rails by transversely cut rail sections, hardness value at any point shall not exceed 390 BHN.

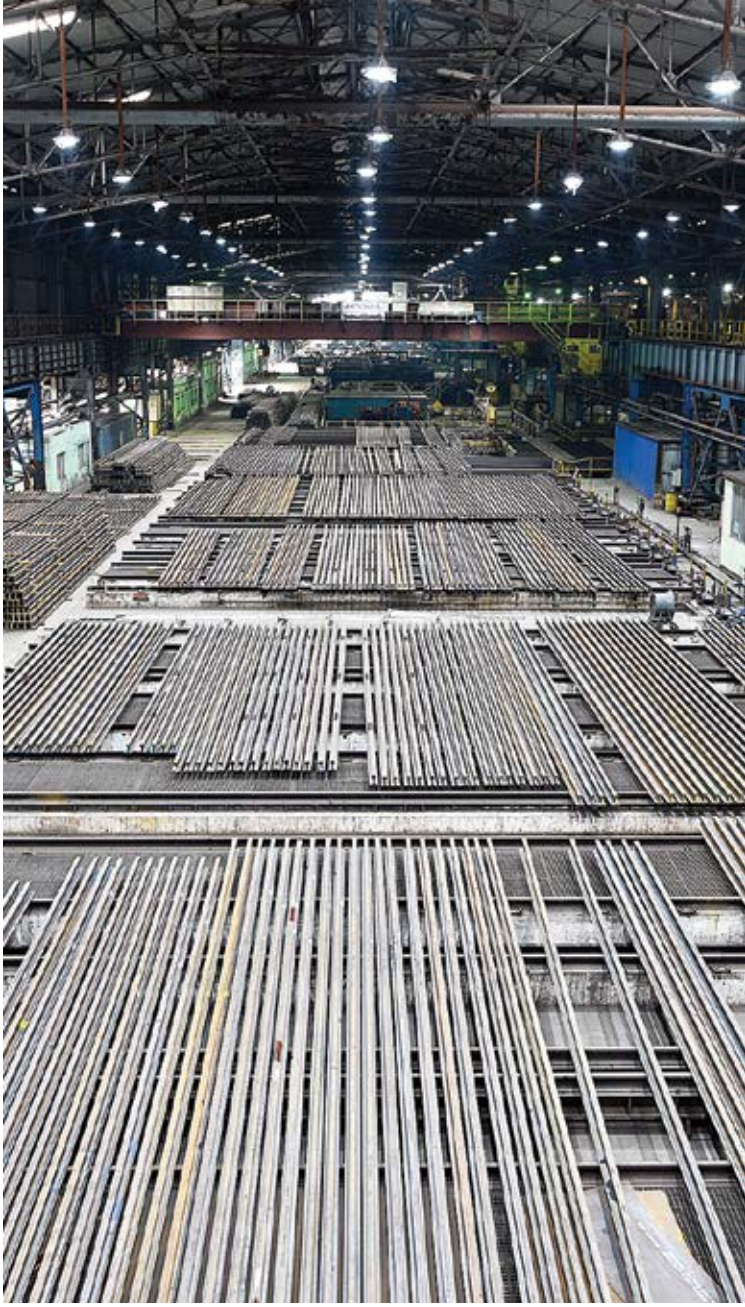
Microstructure Test:

Test piece for microstructure should be taken from the top of the rail head. Test pieces should be polished, etched and viewed under a microscope at 100× and 500× magnification. The microstructure shall be fine pearlite without formation of any martensite and bainite.

Sulphur Print:

It employs a macrograph method for evaluating homogeneity of a steel product. It reveals the distribution of sulphide in steel. The sections are cleaned on one surface in order to eliminate completely all machining marks and to obtain a sharp impression.

A Baumann-type impression is obtained by the application of bromide paper, previously impregnated with a solution of sulphuric acid, to the clean rail sections drawn from a location within the cast at the discretion of the inspecting agency.



Falling Weight Test:

This test is carried out to determine the ability of rail to resist cracking when a heavy load falls from a certain height. It gives an idea about material toughness.

Hydrogen content:

Gases dissolved in steel may have highly detrimental effects such as shatter cracks. Therefore, it is important to control the same in very close limits at Jindal Steel, Ruhrstahl Heraeus Degasser is used for cleaning steel from dissolved gases like hydrogen, oxygen and nitrogen.

Macrostructure Test:

Due to the specific process of heat treatment being adopted by the manufacturer, macro-structure of heat affected zones may not show distinct zones. Suppliers should advise the purchaser of this in advance.

LONG RAILS

Rails of 260 meters are quite common nowadays. The importance of reducing welded joints has been felt by railways worldwide, for both economic and technical reasons.

On account of a multitude of problems with fish plated joints and improper thermite welding at the track site like fractures, high maintenance costs, etc., the requirement of superior quality welding in factory conditions has been on the rise. These long rails would minimize welding at site thereby reducing wear and tear and provide extended lifespan. It would also allow faster laying of tracks.

LONG RAIL WELDING PLANT

Inspired to innovate new products to provide solutions and improvements, Jindal Steel has installed an integrated flash butt welding plant to produce long welded Rails up to 260 m with only 3 welds rolled up to 121 m long.

The welding plant by Railtech SCHLATTER – France comprises state-of-the-art automated brushing, automatic welding machine (with built-in stripping unit) post straightening and finish grinding followed by on line ultrasonic testing of welded joints.

LONG RAIL WELDING AND TRANSPORTATION



HEAD HARDENED RAILS

As a lifeline for mass transportation, railways have to continually innovate, and steel plays a pivotal role in providing choice for heavy haul applications by meeting the demanding conditions of the mass-transit and freight networks become faster and extend further. Head-hardened rails offer greater efficiency through their ability to handle higher axle loads with low deformation and wear. These rails are also used in tracks where higher acceleration and deceleration are inevitable.

Jindal Steel pioneered the establishment of an online head hardened rails facility (SMS Meer Germany) in India. The Head Hardened Rails manufacturing process and product of Jindal Steel is approved by RDSO and TUV-Nord, Luxembourg.

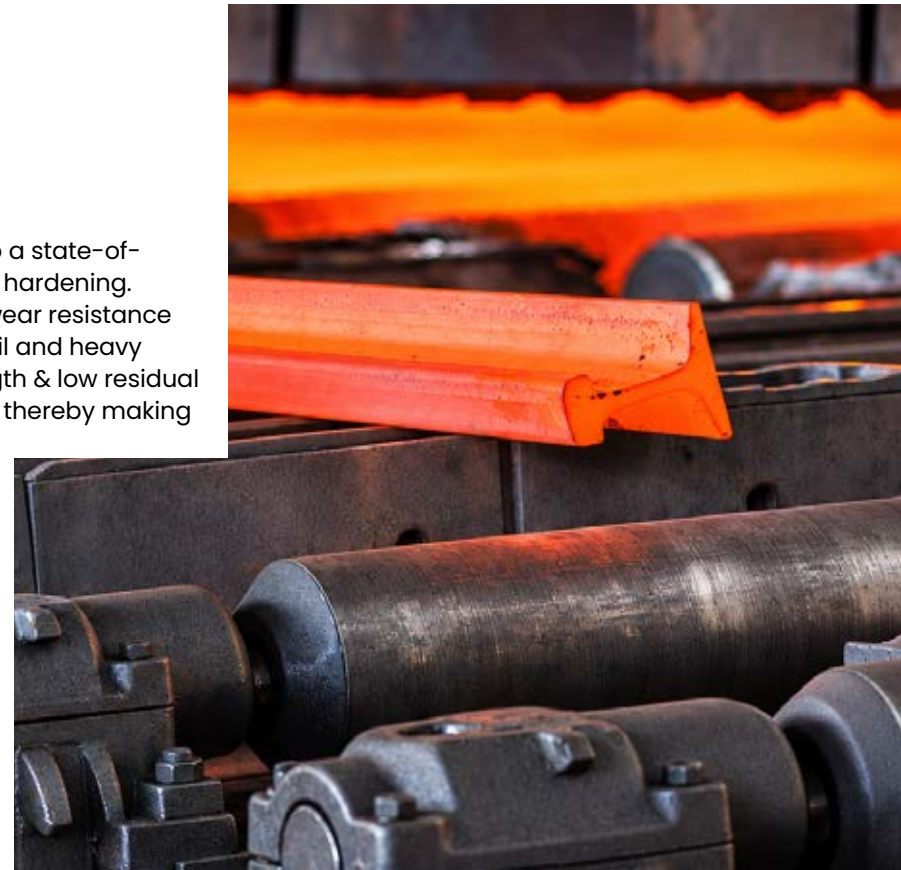
Head-hardening process at Jindal Steel Rail Mill: The rolled rails are heated through induction coils for uniform heating of rail heads. The uniformly heated rails are passed through a cooling chamber. Mist cooling of rails through 'Selective Cooling' technology of SMS Meer ensures uniform cooling across the section.

MECHANICAL PROPERTIES OF HH RAILS VIS-À-VIS NORMAL RAILS

Specification	Grade	Hardness (BHN)	UTS (MPa)
IRS-T-12-2009	880 Grade	Minimum 260	880
	1080 HH	340-390	1080
	R350 HT	350-390	1175
EN 13674-2011	R260	260-300	880
	R350HT	350-390	1175

ADVANTAGES OF HEAD HARDENED RAILS

Jindal Steel took the lead by setting up a state-of-the-art technology for online rail head hardening. Head Hardened Rails with enhanced wear resistance required for high speed track metro rail and heavy haul applications with very high strength & low residual stress allowing improved lifecycle and thereby making it cost efficient.



- Lower rail wear
- Higher strength
- Lower residual stress
- Enhanced safety
- Cost-efficient with longer service life

APPLICATIONS

MIXED TRAFFIC SYSTEM: Rails supplied are suitable for use in traditional mixed-traffic systems. The rails are used in different weather conditions, different geographies, frequent braking, and varied load conditions.



HEAVY HAUL APPLICATIONS: High axle loads and longer trains, growing demand for transport capacity to keep pace with economic growth have resulted in the need to upscale existing rail tracks with high strength rails which that offer high resistance to wear, longer life and reduced maintenance. Jindal Steel is the first Indian manufacturer to develop high strength heat treated rails suitable for heavy haul application.





SWITCHES AND TURNOUTS: To meet the need for sturdier switches for handling higher speed and higher axle loads, thick web switches made of ZU-1-60 asymmetric rails are now used. Jindal Steel offers rail profile ZU-1-60 as per IRS-T-12 and 60E1A1 as per EN-13674 for switches and turnout applications.

NEW PRODUCTS FOR THE NEW INDIA

Jindal Steel is keen to contribute to the government's 'Make in India' initiative. After the successful development of 260 meters long rails and Head Hardened Rails, we are committed to further pursuing this mission with the development of the following new products:

ASYMMETRIC RAILS (ZU-1-60 / 60E1A1): Jindal Steel has developed thick web 60E1A1 / ZU-1-60 rails profile. These Rails are used for making Turnout. Jindal Steel has been approved by RDSO for ZU-1-60 Asymmetric Rails.

60E1 GRADE R260 NON HEAT TREATED RAILS: Indian Railways is amending Rail specification along the lines of International Standards. We have developed 60E1, R260 Grade Rails (as per the RDSO specification) to meet new requirements of IR.

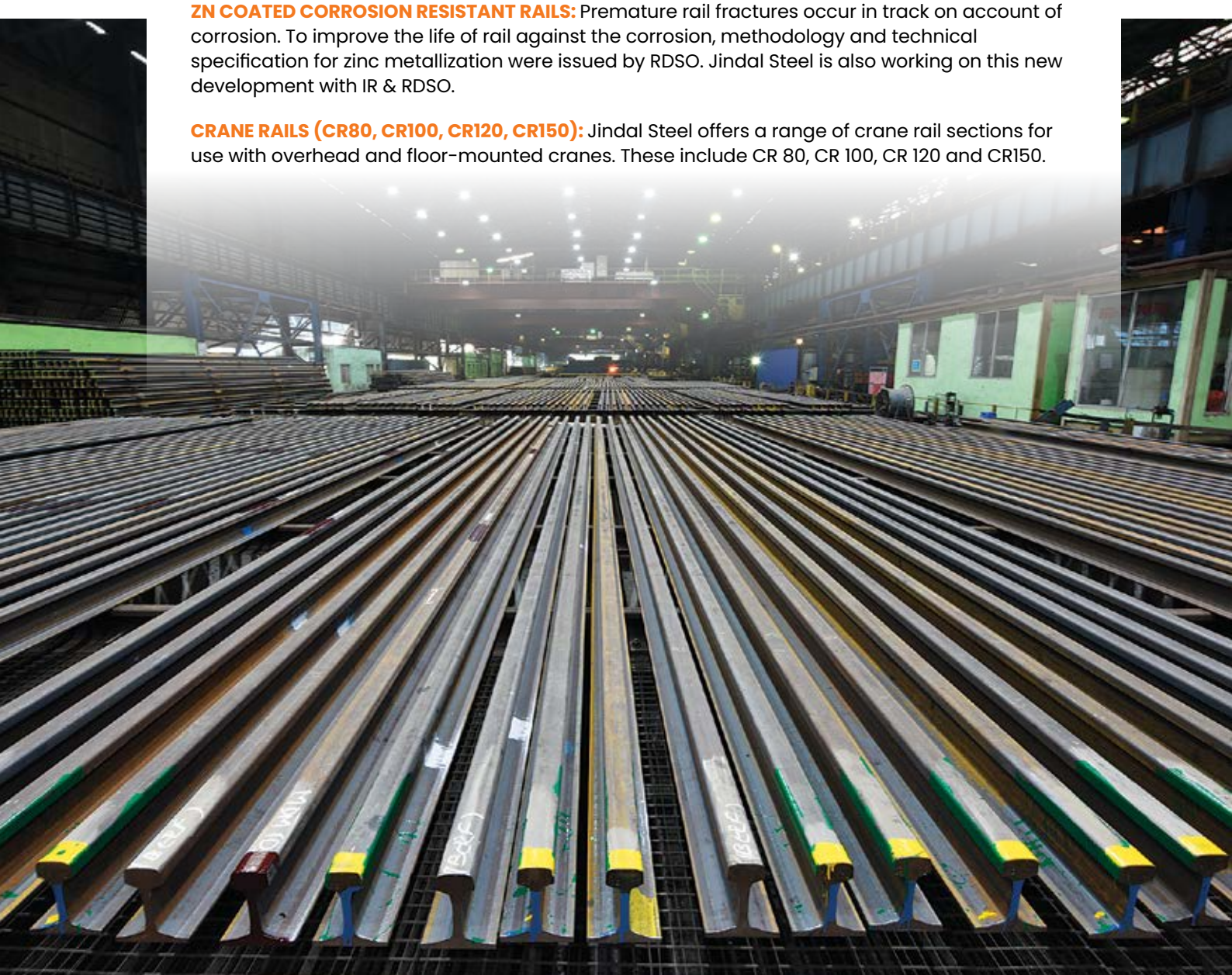
IRST12 GRADE 1080 HH RAILS: Jindal Steel developed for metro rails

IRST12 GRADE R350HT RAILS: These rails are developed for high speed and high axle load requirements of Indian Railways. It is equivalent to rail grade R350HT (EN-13674).

LONG RAIL WELDED PANEL: Jindal Steel developed the flash butt welding technology. It is approved by RDSO for welding & supply of 260 meter welded panel.

ZN COATED CORROSION RESISTANT RAILS: Premature rail fractures occur in track on account of corrosion. To improve the life of rail against the corrosion, methodology and technical specification for zinc metallization were issued by RDSO. Jindal Steel is also working on this new development with IR & RDSO.

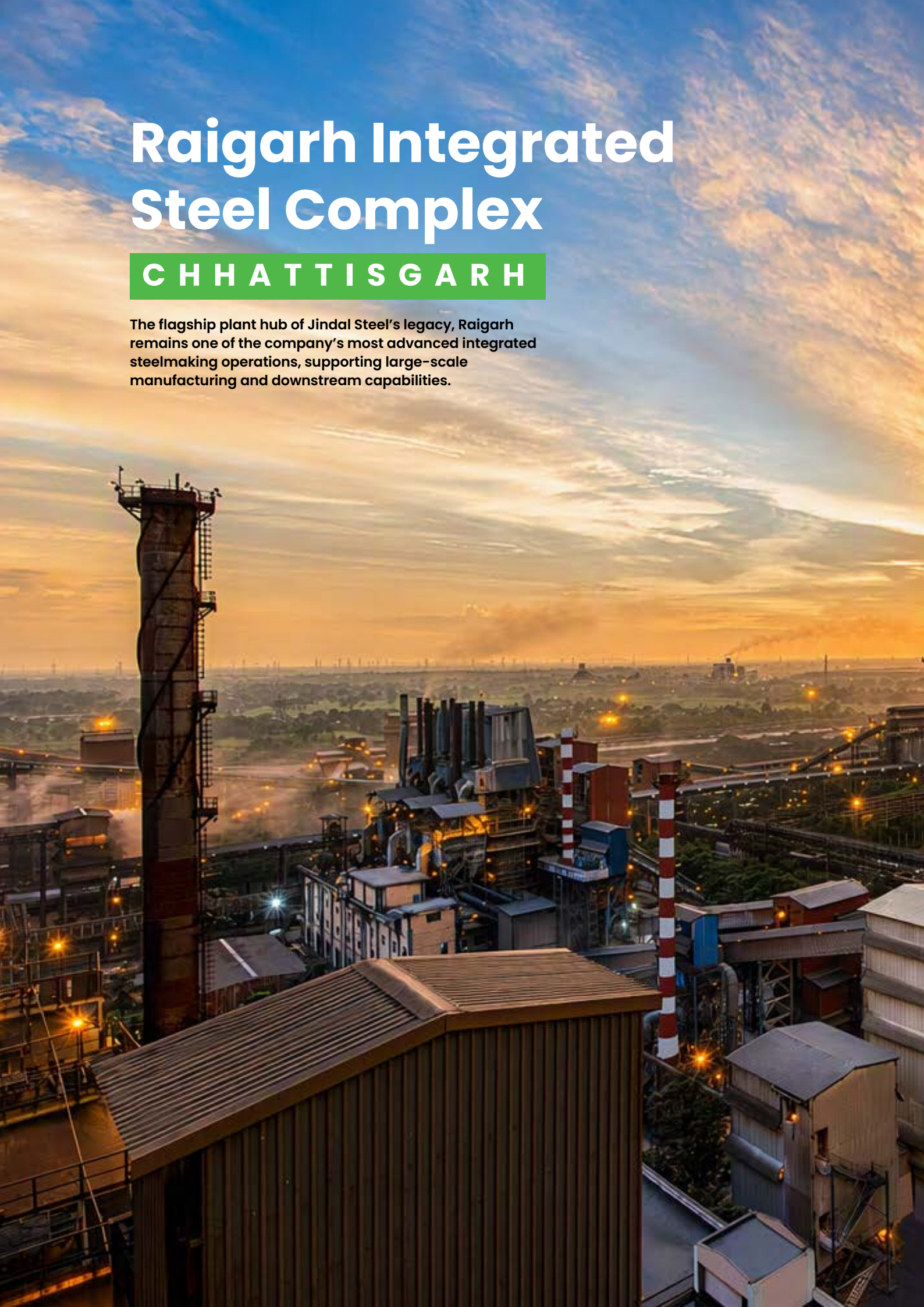
CRANE RAILS (CR80, CR100, CR120, CR150): Jindal Steel offers a range of crane rail sections for use with overhead and floor-mounted cranes. These include CR 80, CR 100, CR 120 and CR150.



Raigarh Integrated Steel Complex

CHHATTISGARH

The flagship plant hub of Jindal Steel's legacy, Raigarh remains one of the company's most advanced integrated steelmaking operations, supporting large-scale manufacturing and downstream capabilities.





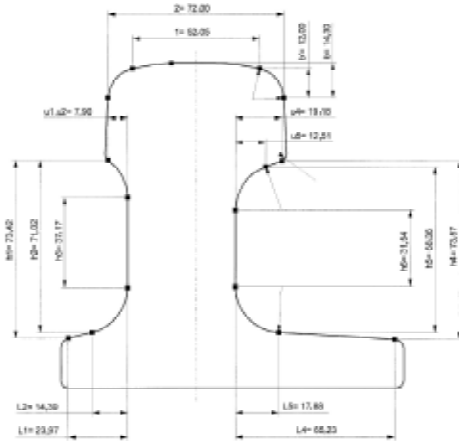
JINDAL STEEL PRODUCT RANGE

Grades: Chemical Composition and Mechanical Properties

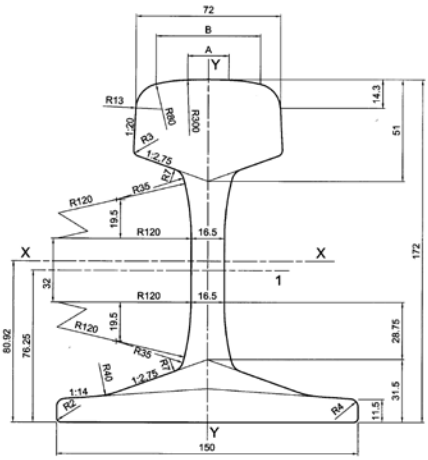
Steel Grade	% by mass							
	C	Si	Mn	P(max)	S(max)	Cr	V(max)	Ni
IRS T12 Grade 880	0.60 to 0.80	0.10 to 0.50	0.80 to 1.30	0.030	0.030	-	-	-
IRS T12 Grade R260	0.60 to 0.82	0.13 to 0.60	0.65 to 1.25	0.025	0.030	≤0.15	0.030	-
IRS T12 Grade 1080HH	0.60 to 0.80	0.10 to 0.50	0.80 to 1.30	0.030	0.030	-	-	-
IRS T12 Grade R350 HT	0.70 to 0.82	0.13 to 0.60	0.65 to 1.25	0.025	0.030	≤0.15	0.030	-
EN 13674 Grade R260	0.62 to 0.82	0.13 to 0.60	0.65 to 1.25	0.030	0.030	≤0.15	0.030	-
EN 13674 Grade R350 HT	0.70 to 0.82	0.13 to 0.60	0.65 to 1.25	0.025	0.030	≤0.15	0.030	-
AREMA 115 RE	0.74 to 0.86	0.10 to 0.60	0.75 to 1.25	0.020	0.020	≤0.30	0.010	≤0.25

RAIL SECTIONS BY Jindal Steel: 60I

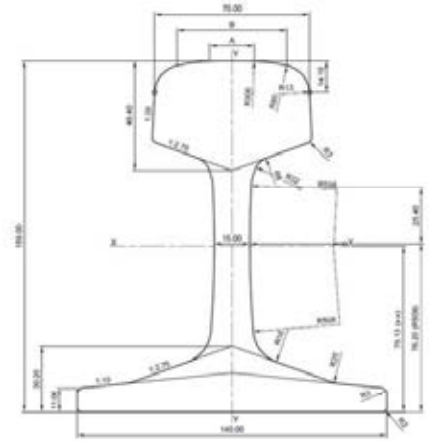
60E1A1 / ZU160



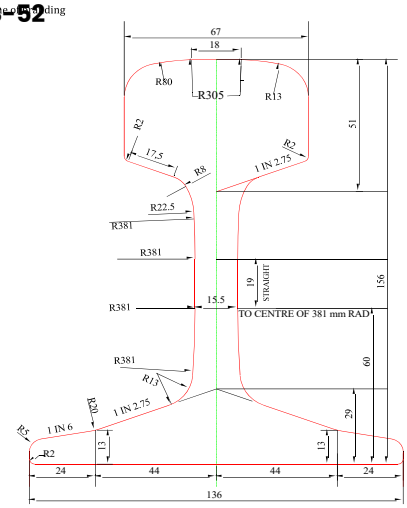
60E1



UIC54-54EI



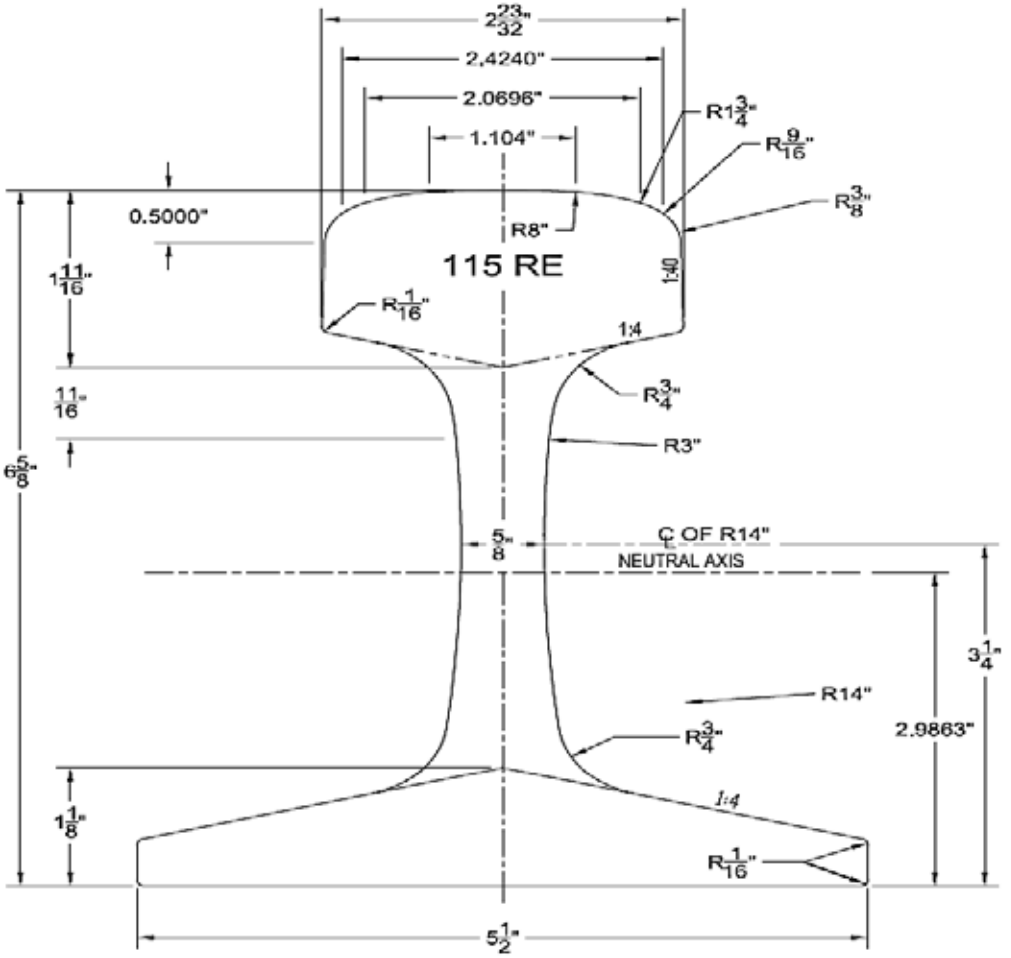
IRS-52



	Mo(max)	Al(max)	N(max)	O2 (ppm) max	H2(ppm) max	"Tensile Strength (MPa)"	"Yield Strength (Mpa)"	"Elongation (%) min"	Hardness of the Rail Running Surface, Centre Line (HBW)
	-	0.15	-	-	1.6	880	-	10	Min 260
	-	0.004	0.010	20	1.6	880	550	10	260-300
	-	0.15	-	-	1.6	1080	-	10	340-390
	-	0.004	0.010	20	1.6	1175(Head)	560 (Head), 560 (Foot)	9 (Head)	350-390
	-	0.004	0.010	20	2.5	880	-	10	260-300
	-	0.004	0.010	20	2.5	1175	-	9	350-390
	≤0.060	0.01	-	-		142.5 ksi (983 MPa)	74 ksi (511 MPa)	10	≥310

E1, IRS 52, UIC 54 & ZU160

115 RE



Sales and Marketing Regional Office Details

Sales Office	Branch Manager	Address
East Zone		
Ranchi	Lalit Kumar Dutta	Jindal Steel Limited, Uma Bhawan, First Floor, House No. 359/A, Road No. 5/B, Ashok Nagar, Ranchi - 834002 (Jharkhand)
Bhubaneswar	Debasis Das	Jindal Steel Limited, Plot No.- 3, Forest Park, Bhubaneswar-751009 (Odisha)
Patna	Lalit Kumar Dutta	Jindal Steel Limited, 309, Vasundhara Metro Mall Rajapur Pul, Boring Canal Road, Patna-800001 (Bihar)
Kolkata	Nitesh Shukla	Jindal Steel Limited, Haute Street Building, 86 A Topsia Road, Kolkata-700046 (West Bengal)
Guwahati	Gautam Sawana	Jindal Steel Limited, House No.-15, Rajgarh Road, Near Bank of Baroda, Guwahati-781007 (Assam)
Raipur	Ravishekhar Kumar	Jindal Steel Limited, 9th Floor, CBD Complex, Block C, Commercial Tower, Sector-21, Atal Nagar, Nava Raipur-492101 (Chhattisgarh)
West Zone		
Bhopal	Lalit Garg	Jindal Steel Limited, E10-11, 8th Floor, Bansal One, Near Rani Kamlapati Railway Station, Bhopal-462016 (Madhya Pradesh)
Mumbai	Shashikant Singh	Jindal Steel Limited, 3rd Floor, Jindal Mansion 5A, Dr. G. Deshmukh Marg (Pedder Road), Mumbai-400026 (Maharashtra)
Pune	Shashikant Singh	Jindal Steel Limited, AWFIS, 17th Floor, Nyati Enthral, Mundhwa-Kharadi Bypass, Kharadi South Main Road, Kharadi, Pune-411014 (Maharashtra)
Ahmedabad	Chandravir Singh	Jindal Steel Limited, B-2206 & 2207, 22nd Floor, B Block, Westgate By True Value, Nr. YMCA Club, SG Highway, Ahmedabad–380015 (Gujarat)
North Zone		
Noida	Prabhav Singh	Jindal Steel Limited, Unit Numbers 1011 & 1012, 10th floor, Office Tower, Bhutani City Centre, Plot No. 58, Block BW, Sector 32, Noida-201301 (Uttar Pradesh)
Lucknow	Prabhav Singh	Jindal Steel Limited, 506, 5th Floor, Shalimar Iridium, Shalimar Corporate Park, Vibhuti Khand, Gomti Nagar, Lucknow-226010 (Uttar Pradesh)
Chandigarh	Amit Tyagi	Jindal Steel Limited, SCO-24, 1st floor Sector 26 Madhya Marg, Chandigarh-160019
Ludhiana	Adnan M Wani	Jindal Steel Limited, SCS-132, First Floor, Urban Estate Phase-1, Jamalpur, Ludhiana-141010 (Punjab)
Jaipur	Varun Singh	Jindal Steel Limited, Office No.-307, Bansal Tower, Rathore Nagar Scheme, Vaishali Nagar, Jaipur-302021 (Rajasthan)
Faridabad	Santosh Kumar Jha	Jindal Steel Limited, Shop No. 9, Bata A Colony, NIT, Faridabad-121001 (Haryana)
South Zone		
Visakhapatnam	PC Samantaray	Jindal Steel Limited, 3rd Floor, Bhupati Surya Central Mall, Dondaparthy Circle, Vishakhapatnam-530016 (Andhra Pradesh)
Bangalore	NM Srikant	Jindal Steel Limited, No. 404, Prestige Meridian -2, M. G. Road, Bengaluru – 560001 (Karnataka)
Chennai	Krishna Chaitanya	Jindal Steel Limited, Awfis, Center Point 3., 6th Floor, No.2/4 Mount-Poonamallee Road, Manapakkam, Chennai-600089 (Tamil Nadu)
Kochi	Shyam Sunder	Jindal Steel Limited, B1 (1st Floor), Springs Cascade, Opp. EMC Peringatt Road, Palarivattom, Kochi-682025 (Kerala)
Hyderabad	PC Samantaray	Jindal Steel Limited, Unit No.-1007, 10th Floor, Jain Sadguru Images Capital Park, Plot No. 1-98/4/1 to 13, 28 & 29, Image Garden Road, Madhapur, Hyderabad-500081 (Telangana)

NOTE

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