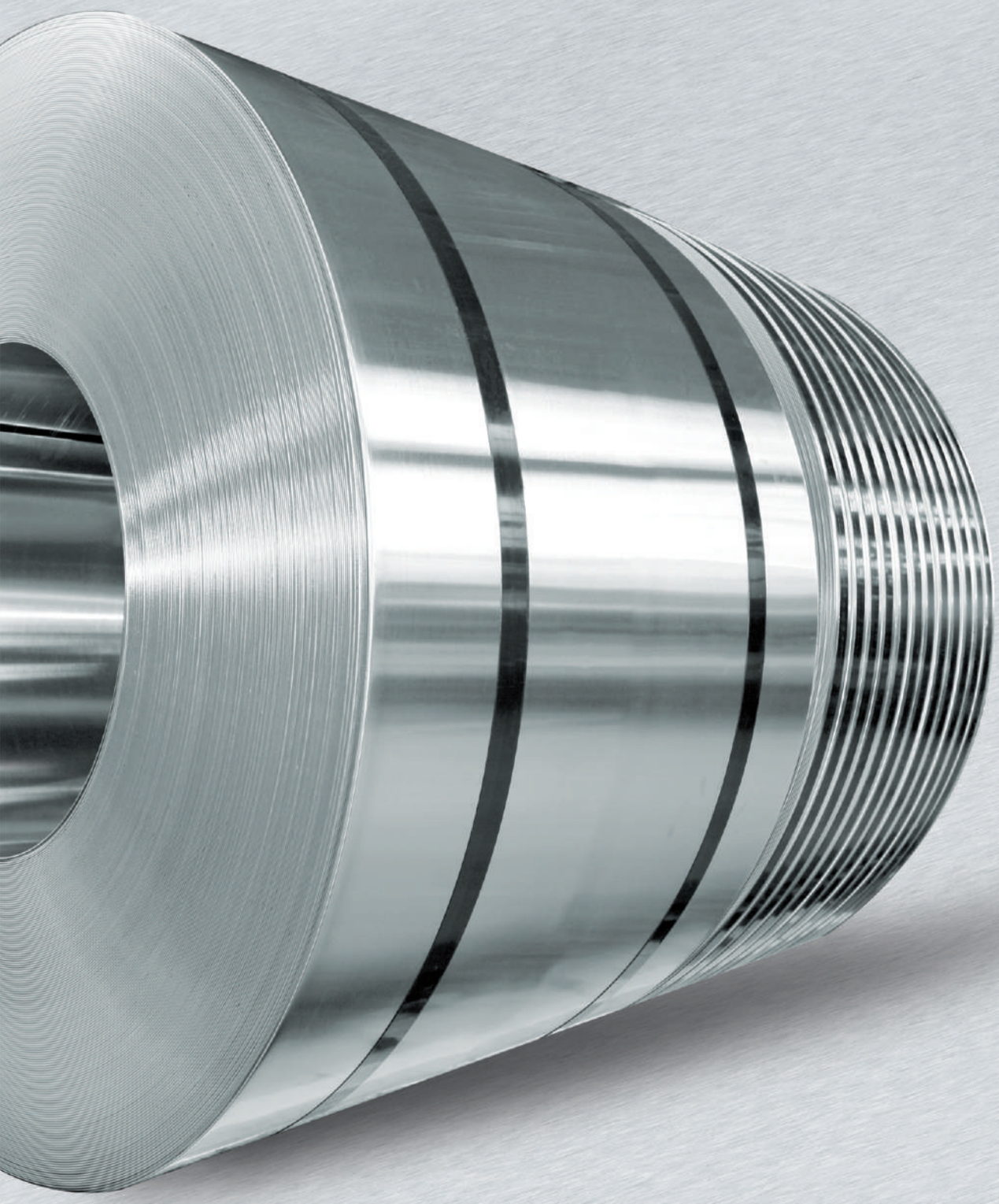
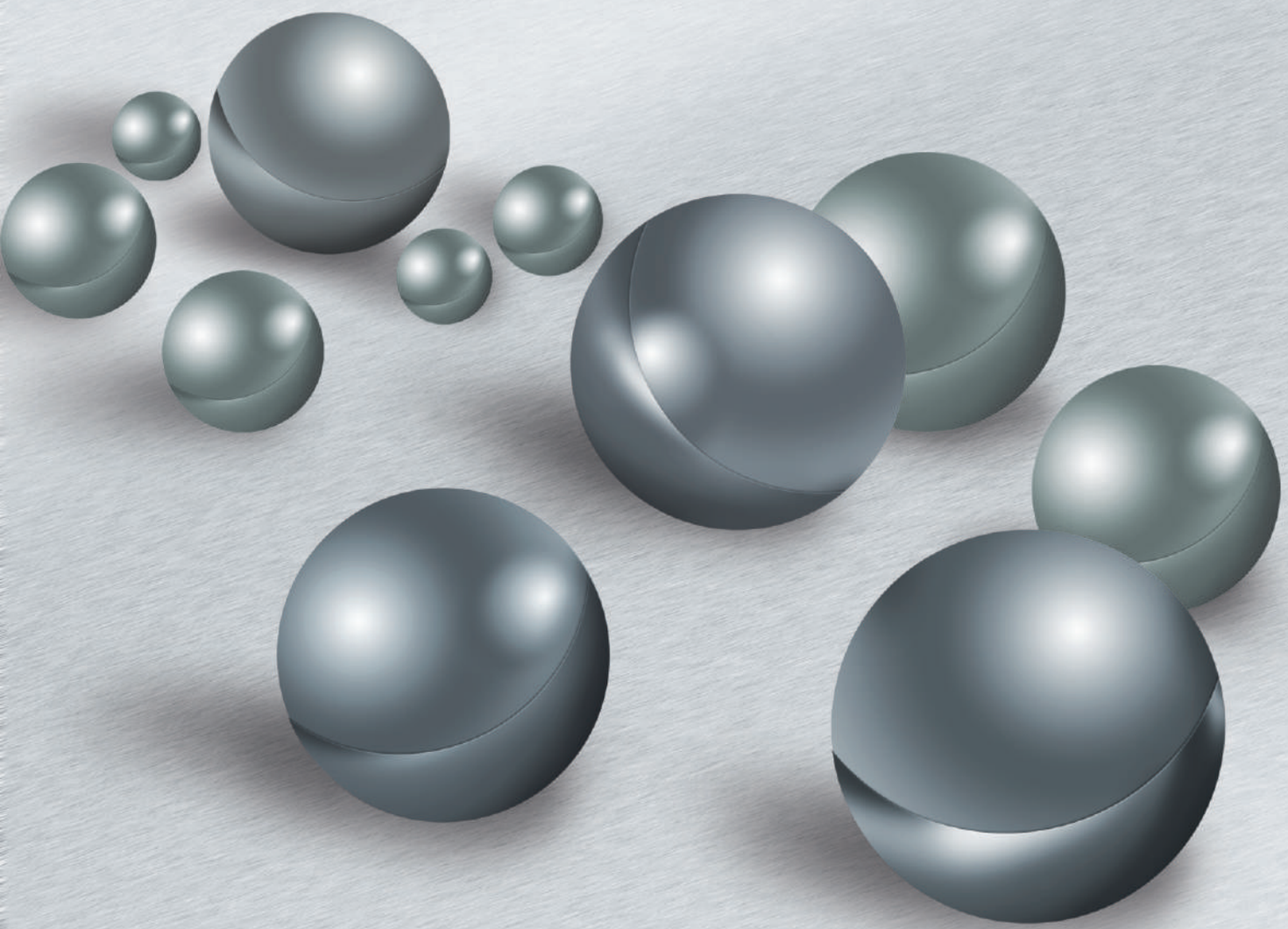
JSL
JINDAL STAINLESS



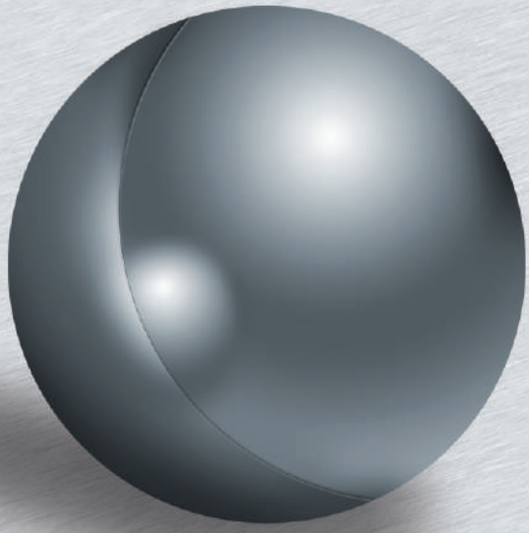
STAINLESS STEEL

JINDAL

Strengthening our roots in Innovation & Integration



India's largest fully integrated stainless steel producers with a capacity of 3.1 million tons per annum



Jindal Stainless, Jajpur

Jindal Stainless Group

Founded by Shri O P Jindal in 1970, Jindal Stainless is one of the largest stainless steel conglomerates in India and ranks amongst the top 5 stainless steel conglomerates in the world. It's not only the magnitude of our operations that determines our credibility and name, but we remain inspired by our vision for innovation and enriching lives. Jindal Stainless has an annual turnover of INR 38,562 crore (USD 4.7 billion) in FY24 and is ramping up its facilities to reach 4.2 million tons of annual melt capacity.

Our growth has been backed by the excellence of our people, value-driven business operations, customer centricity and best safety practices in the steel industry, and a commitment towards social responsibility.

The company focuses on creating value by providing synergy within the group companies, working on a prime repository of global best practices and frameworks with the help of a talented team.

Jindal Stainless, Hisar

The Hisar plant, established in 1970, stands as a testament to the visionary leadership of Shri O P Jindal. His foresight in recognising India's need for self-reliance in stainless steel production led to the creation of the nation's first such facility. At the time, stainless steel was considered a luxury metal, and India was entirely dependent on imports, which incurred duties of up to 300%. Shri O P Jindal's pioneering spirit and determination paved the way for domestic production, ultimately transforming India's stainless steel landscape.

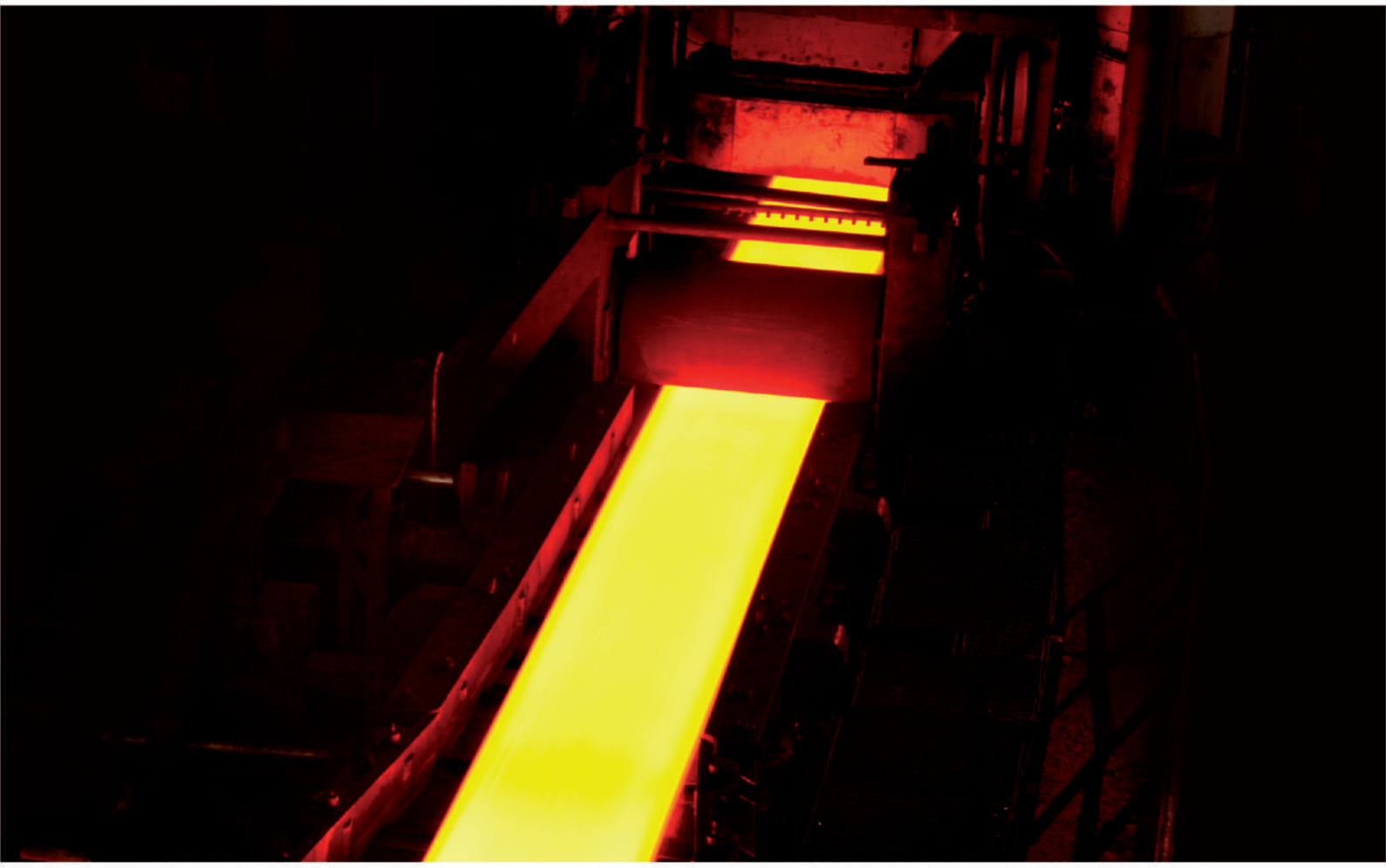
Since its inception, Jindal Stainless has pursued a strategy of both backward and forward integration, encompassing all stages from melting and casting to hot and cold rolling, as well as other value additions. Today, our Hisar plant stands as a fully integrated stainless steel facility with a capacity of 800,000 tons per annum (TPA). Notably, it is the world's largest producer of stainless steel strips for razor blades and India's largest producer of coin blanks, catering to both domestic and international mints. Our Specialty Products division serves the high-end precision and specialty stainless steel requirements of renowned Indian and international customers. Our product range includes slabs and blooms, hot-rolled coils, strips, plates, coin blanks, precision strips, and cold-rolled coils.

Moving forward, Jindal Stainless plans to maintain its focus on developing new value-added stainless steel grades, improving processes, and ensuring customer satisfaction through customised products that meet specific requirements. Simultaneously, the company is actively pursuing continuous measures to reduce costs across various production processes.

STAINLESS STEEL MAKING

The state-of-art Melt & Casting Shops have an installed capacity of

800,000 tons per annum



Equipment	No.	
2 Electric Arc and 1 Induction Furnace	02	45MT & 40MT
AOD Convertor	02	50MT each
VOD	01	50MT

HOT ROLLING

Hot Rolling Complex comprises of 4-Hi Twin Stand Hot Steckel Mill and Tandem Strip Mill with a total capacity of 720,000 tons per annum & 250,000 tons per annum respectively. Hot Steckel Mill consists of a Roughing Stand, two Finishing Stand, and a Walking Beam Slab Reheating Furnace. The Tandem Strip mill comprises of Reheating Furnace, Roughing Stand, five Finishing Stands, and Down Coiler.

The complex also consists of Plate Annealing & Pickling facilities along with Shot Blasting. Straightening and Leveling equipment to produce Stainless Steel Plates of various grades.

COLD ROLLING

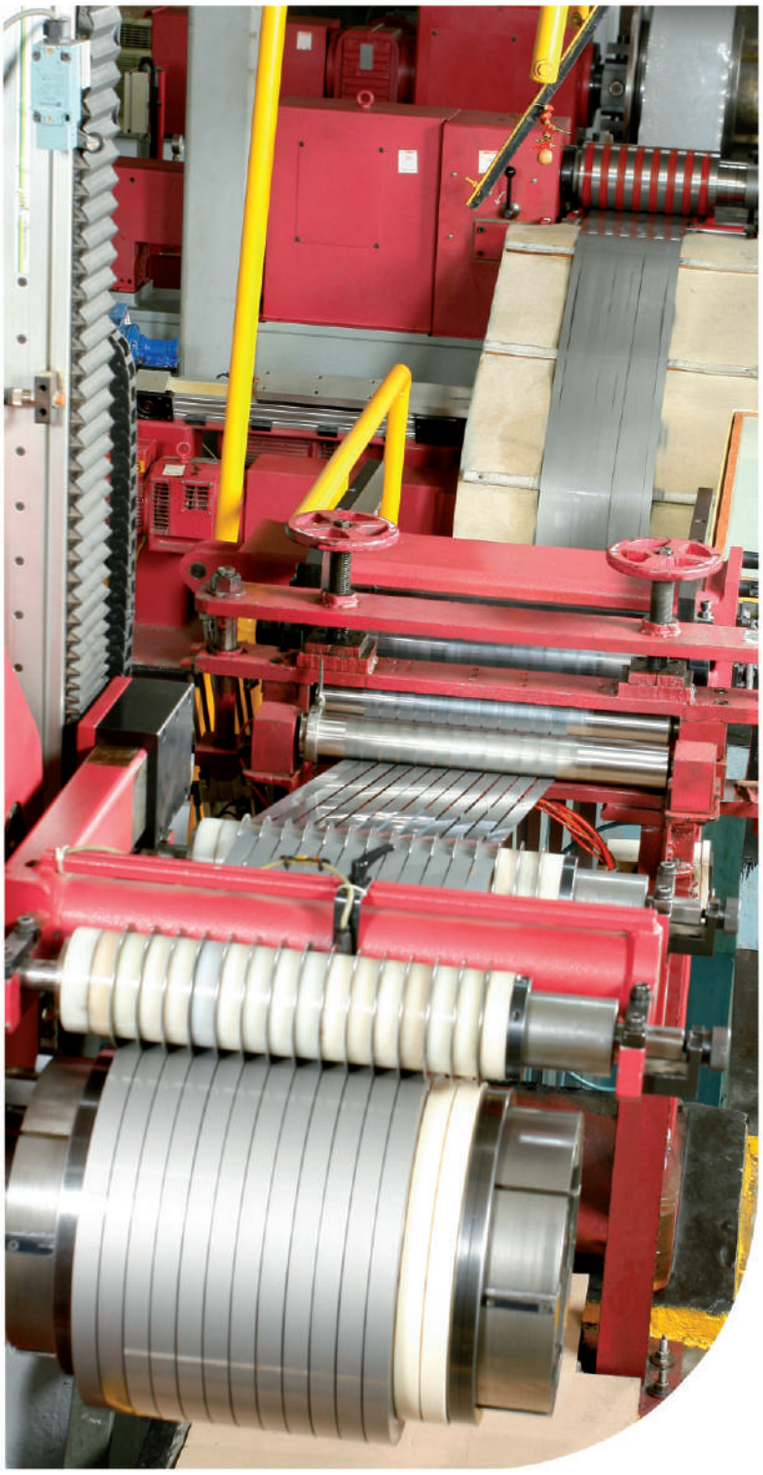
Cold Rolling Complex has the capacity to produce 401,500 tons per annum of Cold Rolled Stainless Steel Flat products.

The complex is equipped with four 20 Hi-Sendzimir Cold Rolling Mills, four continuous Anneal and Pickle lines, three of these are equipped with Electrolytic Pickling, one bright Annealing Line, three Coil Preparation Lines, four Slitting Lines, one Leveling and Sheet Shearing Line with associated facilities.

Jindal Stainless is fully equipped to produce material with No.1, 2D, 2B, BA and No.4 and customised surface finish. It can also produce other specialized finishes such as moon rock, hammerstone and honey comb.

SPECIALITY PRODUCTS

Speciality Product Complex has a capacity of 64,000 tons per annum of precision cold rolled strips and martensitic stainless steel for razor blade manufacturing.



The Speciality Product Complex comprises of processing equipment, primarily for annealing, rolling and finishing. There is an option of using either a Bell Annealing or a Bright Annealing or even Pull- through Annealing, depending on the grade and finish, of Stainless Steel being produced.

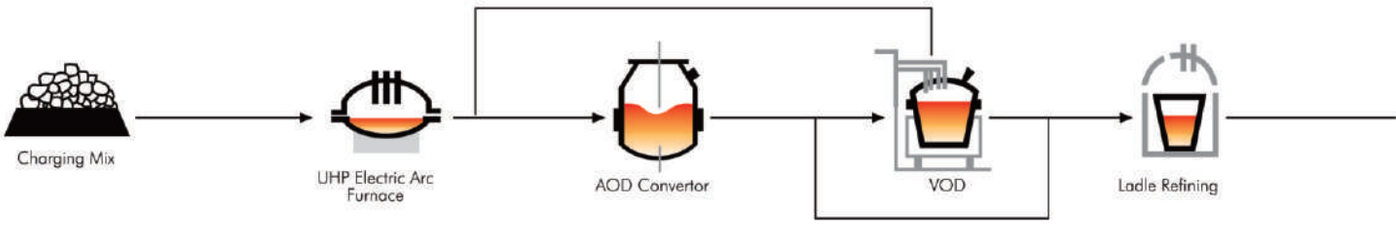
4- Hi mills and 20-Hi mills are used for reduction rolling to thinner gauges with close thickness tolerances. To impart various finishes in the final products, the complex has Strip Grinding Line, Skin Pass Mill and Tension Leveler. Such product then passes through the Precision Slitters to achieve precise dimensions.

The razor blade cold rolled strips of up to 0.076mm thickness are produced in this complex and supplied to leading Indian and International razor blade manufacturers.

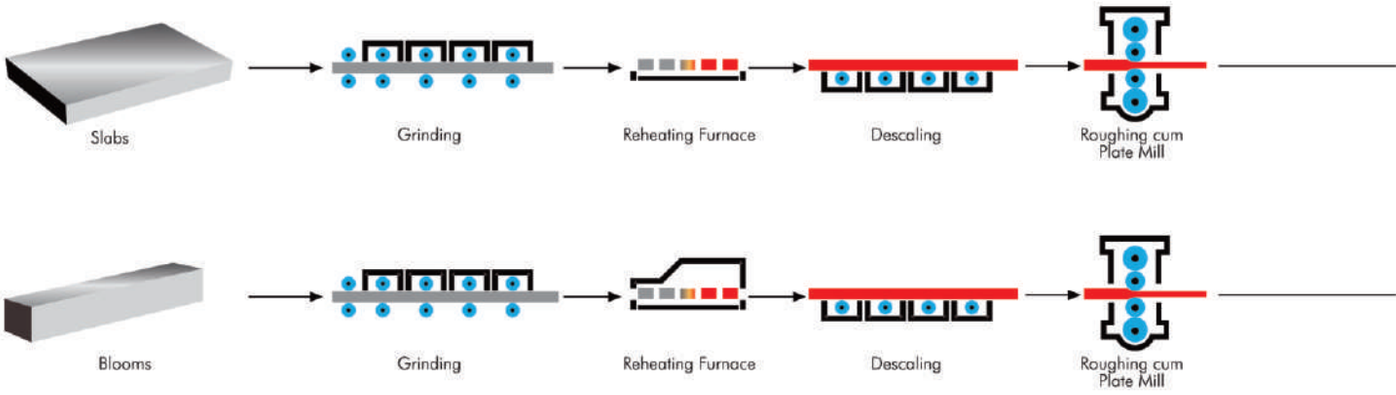
The company also has the capability of producing ferritic Stainless Steel and Non-Ferrous coin blanks. The present installed capacity of coin blank unit is 9,125 tons per annum.

PROCESS FLOW
HISAR

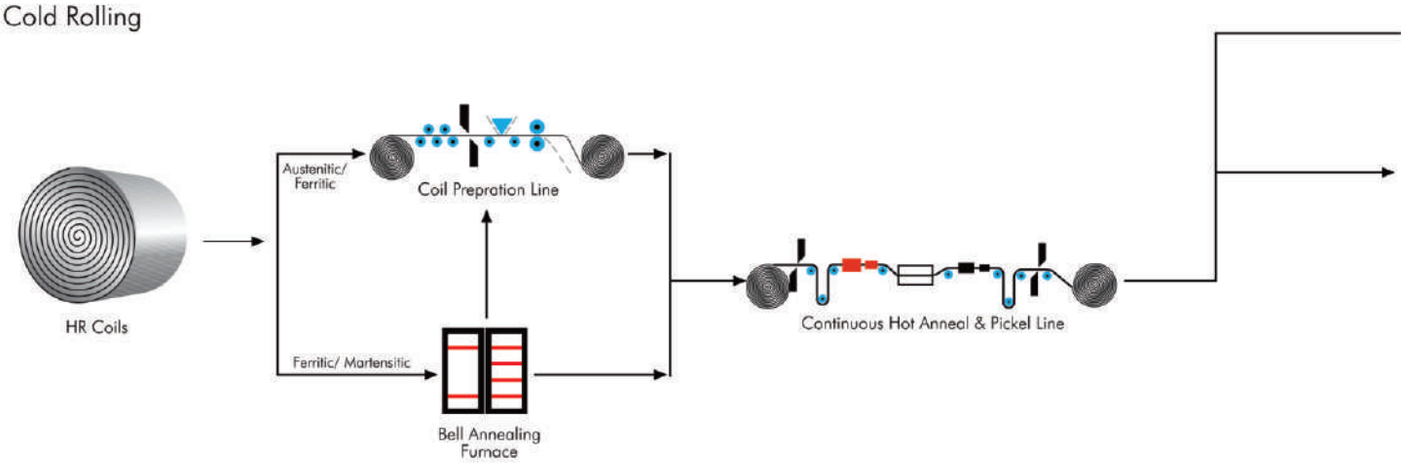
Stainless Steel Making

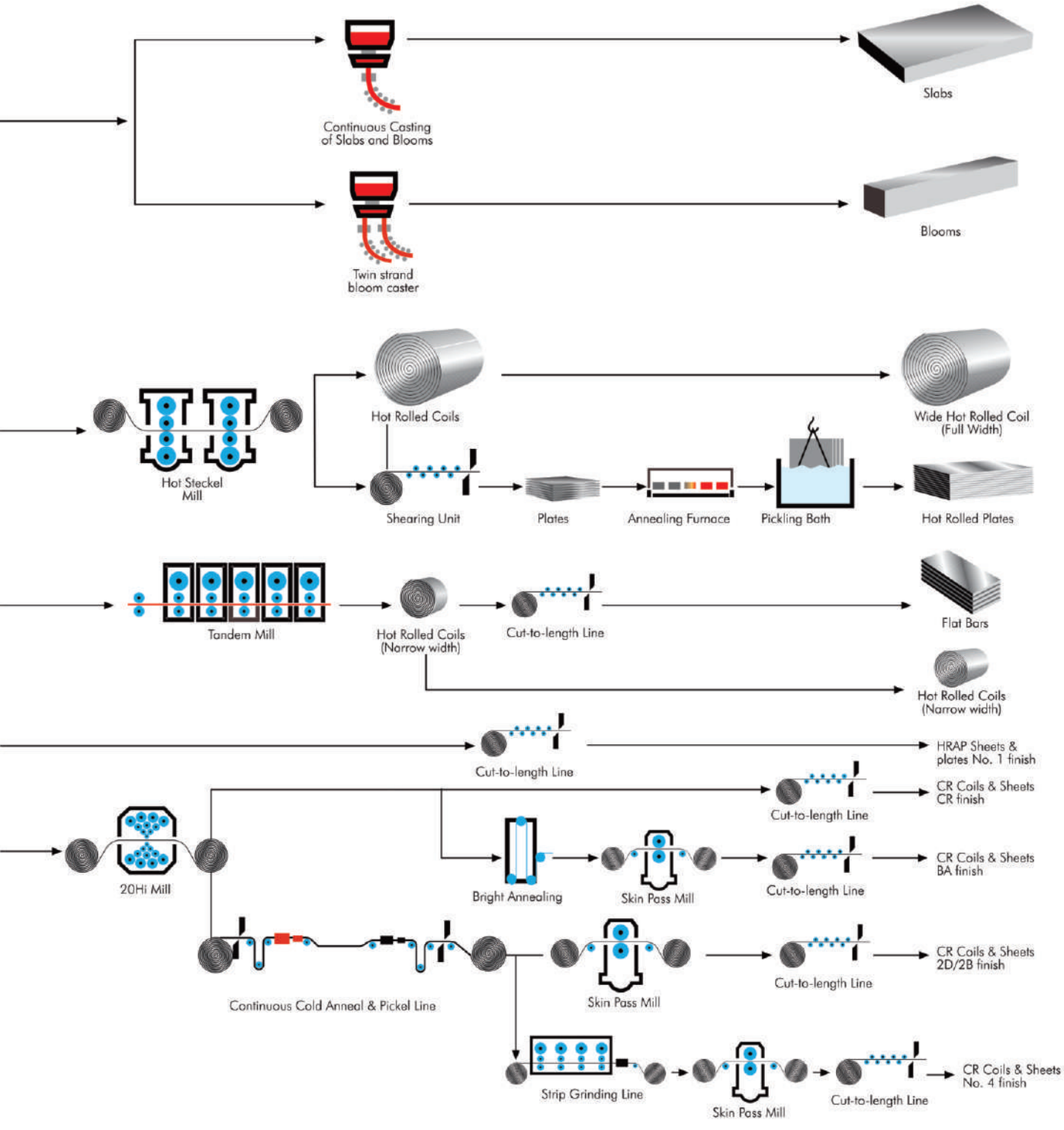


Hot Rolling



Cold Rolling




Slabs
Continuous Casting of Slabs and Blooms
Blooms
Twin strand bloom caster
Hot Rolled Coils
Wide Hot Rolled Coil (Full Width)
Hot Steckel Mill
Shearing Unit
Plates
Annealing Furnace
Pickling Bath
Hot Rolled Plates
Tandem Mill
Hot Rolled Coils (Narrow width)
Cut-to-length Line
Flat Bars
Hot Rolled Coils (Narrow width)
Cut-to-length Line
HRAP Sheets & plates No. 1 finish
Cut-to-length Line
CR Coils & Sheets CR finish
20Hi Mill
Bright Annealing
Skin Pass Mill
Cut-to-length Line
CR Coils & Sheets BA finish
Continuous Cold Anneal & Pickel Line
Skin Pass Mill
Cut-to-length Line
CR Coils & Sheets 2D/2B finish
Strip Grinding Line
Skin Pass Mill
Cut-to-length Line
CR Coils & Sheets No. 4 finish

Jindal Stainless, Jajpur

The Jajpur unit is one of the largest manufacturing facilities of stainless steel in India, with a capacity of 2.2 million tons per annum. A leader synonymous with enterprise, excellence, and success, the company's ethos mirrors many characteristics of the metal it produces. Akin to stainless steel, Jindal Stainless Limited is innovative and versatile in its thinking, and strong and unrelenting in its operations.

The company is focussing on strengthening Internal Process and Systems and Customer Serviceability. Further, special plans are being made for market development of niche grades and expanding the portfolio of high value products of steel. The state-of-the-art unit of Jindal Stainless is located in the eastern part of India in the state of Odisha. The plant in Odisha also has Ferro Alloy's manufacturing facilities with world class technology and equipments sourced from SMS Siemag, Germany & SIB Electrotherm Russia and a production capacity of up to 384,675 tons per annum. The complex, equipped with a captive power generation facility, is eventually scalable up to 3.2 million tons per annum of stainless steel production.

This Stainless Steel plant's current capacity is **2.2** million tons per annum scalable up to **3.2** million tons per annum

FERRO ALLOYS

Mining of ore is key to the integration process. Jindal Stainless has Chrome Ore open cast mines at Sukinda, Odisha to support 250,000 tons per annum capacity Ferro Chrome plant at Jajpur.

In the first phase of the Odisha project, Jindal Stainless has set up Captive Power Plants, Coke Oven Batteries and Submerged Arc Furnaces to produce Ferro Alloys.

The Ferro Alloys complex also comprises of 3 x 27.6 MVA furnaces supplied by Sibeltherm, Russia to produce 100,000 tons per annum.

This complex is also equipped with modern de-dusting, pollution control and waste management systems.

Plant & Facility	Current	Future Expansion	Full Development
Ferro Chrome Plant	2X60 MVA & 3X27.6 MVA (250,000 TPA)	80,000 TPA	330,000 TPA

COKE OVEN

Jindal Stainless has installed one 64-chamber stamp-charging Coke Oven Battery to produce 430,000 tons per annum with recovery of by-products such as Coal Tar, Ammonium Sulphate, Sulphur and Coke Oven Gas. The Coke Oven Gas will be utilised in Reheating furnace for preheating slabs for Hot Rolling. With the same by-product plant, another battery will be added to double the capacity to 860,000 tons per annum.

Plant & Facility	Current	Future Expansion	Full Development
Coke Oven Battery	430,000 TPA	430,000 TPA	860,000 TPA

CAPTIVE POWER PLANT

To fulfill its power requirement, Jindal Stainless has set up 2 x 125 MW captive thermal Power Plant, configured with Pulverised Coal Fired steam generators with provisions to double the capacity. This Captive Power Generation will lead to cost rationalisation and increased competitiveness.

It also has a Waste Recovery Boiler plant (WHRB) that utilizes waste heat from Ferro Alloys unit and produces 2 x 28.5 tph that is utilized for CRM and COBP processes. This facility generates 14 MW power.

Plant & Facility	Current	Future Expansion	Full Development
Thermal Power Plant	250 MW	250 MW	500 MW
WHRB	13 MW	-	-

STAINLESS STEEL COMPLEX

Stainless Steel Making

Stainless Steel melt shop complex has been designed and supplied by SMS SIEMAG of Germany and is based on liquid ferrochrome utilization along with hot metal from submerged arc furnace of Fe Alloys plant. Instead of solid ferrochrome, molten ferrochrome from the Submerged Arc Furnaces is directly fed and liquid steel is produced in EAF. The liquid steel is then properly mixed with chromium pre-melt in a ladle for subsequent operation in AOD vessel for making Stainless Steel as per desired specifications.

At scrap yard the charge is prepared from the stock of scrap and other raw material in the scrap yard. Charge mix is made according to grade of steel and charged into the Electric Arc Furnace (EAF) by over head crane from buckets.

In Raw Material Handling system, which is common to both EAF and AOD, all the materials added from over head bins are stored, weighed and used via conveyor belts as per requirement.

Hot Rolling

The 1.6 million tonne per annum (MTPA) Hot Rolling Complex, designed and supplied by Siemens VAI of Austria, consists of a 6-stand tandem hot rolling mill with a single-stand rougher. The mill is equipped with cutting-edge technological equipment, such as a fully hydraulic edger, long-stroke hydraulic automatic gauge control (HAGC) in all mill stands, L-block bending, and shifting devices in conjunction with the Smart Crown® system for superior profile and flatness control. This tandem mill is designed to handle coil weights of up to 36 tons. Stainless steel plates are extracted via the down coiler area with a plate dividing shear and a plate piler. The plates are then transferred to the plate finishing area for annealing and cutting.

The 300-ton-per-hour walking beam furnace was designed and supplied by Five Stein of France. The furnace utilizes coke oven gas to heat stainless steel slabs, optimizing energy consumption and reducing overall costs.

The production capacity of this mill can be increased to 3.2 MTPA by adding a reheating furnace, a seventh mill stand, and a down coiler.

Cold Rolling

The Cold Rolling Complex, designed and supplied by Andritz of Austria, features a unique in line rolling process with integrated annealing and pickling lines, reducing processing costs through higher yield and productivity. The Hot Rolled Anneal and Pickle (HRAP) line, equipped with a single-stand in-line rolling mill, can produce 2E products alongside HRAP coils with a No. 1 finish. The Cold Rolled Anneal and Pickle (CRAP) line, featuring a 3-stand in-line rolling mill, can produce various thicknesses, grades, and finishes. Both lines can accommodate coil weights of up to 40 tons.

An Air Separation Plant supplies gas such as oxygen, nitrogen, and argon, while a lime and dololime plant provides the necessary quality and quantity of lime/hydrated lime and dolomite. Additionally, the Jajpur integrated stainless steel facility is supported by a central raw material handling system and an internal railway network to facilitate the inbound and outbound movement of raw materials and finished products.

Plant & Facility	Capacity (million tpa)	Further Expansion (million tpa)	Full Development (million tpa)
Stainless Steel Melt Shop	1.1	1.1	2.2
Re-Heating Furnace	300 tph	300 tph	600
Hot Strip Tandem Mill	1.6	1.6	3.2
Hot Rolled Anneal Pickle	0.8	0.9	1.7
Cold Rolled Anneal Pickle	0.45	0.63	1.08

Jindal Stainless Park Limited

Jindal Stainless is developing a Stainless Steel Industrial Park adjacent to its 2.2 million tonne per annum (MTPA) stainless steel plant in Odisha. The company will support the development of downstream units within the park, which covers approximately 271 acres, including both Special Economic Zone (SEZ) and non-SEZ areas. The Industrial Park will house a large service centre and various facilities to produce stainless steel products for applications in architectural building and construction, transportation, industrial and consumer goods, and kitchenware and lifestyle. The service centre will process coils from the stainless steel plant and provide customized sizes to the facilities within the park.

Jindal Stainless will develop, operate, and maintain this Industrial Park and its associated infrastructure, including educational, recreational, and healthcare facilities. The company is committed to developing this Industrial Park into a world-class stainless steel manufacturing hub and invites investors to establish facilities within the park, focusing on stainless steel products. Jindal Stainless assures long-term stainless steel availability at concessional rates, along with access to land, power, water, and other infrastructure such as warehouses, roads, and railway networks.

This Industrial Park is poised to become a world-class stainless steel manufacturing hub.

Jindal Stainless Steelway Limited

Jindal Stainless Steelway Limited, an ISO 9001:2008 & 14001:2004 certified, the domestic Jindal Stainless service center network, offers convenient, customized just-in-time services to the doorsteps of its customers. The company is in the business of distribution and processing of stainless steel, to serve its valued customers with exact slit, cut-to-size, polished stainless steel sheets, coils, and blanks conforming to the highest standards of processing tolerances.

The processing facilities at (**Gurgaon, Mumbai, Chennai, and Vadodara**) inclutate State-of-the-art, high-end precision slitting, cut-to-length, blanking, and polishing lines.

Some of the many services offered are:

- Just-in-Time Deliveries
- Customized Sizes
- Inventory Management
- Technical Support
- Quality Assurance
- Competitive Prices

Our Product Range :-

Cold Rolled (CR) Mother & Slit Coils / Sheets / Cut Blanks / Hot Rolled (HR) Plates.

Surface Finish - 2D, 2B, No.4 PVC, Hairline, No.1, Scotch Brite, Chequred Plate, Anti-Finger, No.8 (Mirror) or any other special finish based on availability.

Jindal Lifestyle Limited

Constructing confidence, building trust

Stainless steel, a material par excellence, is making its mark in Indian architecture. The Architecture Division launched by Jindal Stainless has taken the initiative to promote stainless steel products and technology solutions, catering to the emerging markets of stainless steel for architecture, building, and construction (ABC) in India.

The Architecture Division of Jindal Stainless provides a full range of technical support services, including design, engineering, fabrication of high-quality materials and finishes, and on-site supervision by trained personnel.

The division has completed numerous projects, particularly in street furniture, cafeteria furniture, modular kitchens, lighting, and signage, in addition to other architectural requirements.

INTERIOR

BUILDING & CONSTRUCTION

STREET FURNITURE

AUTOMOTIVE, RAILWAYS & TRANSPORT

arttd'inox

Styling lifestyles

Arttd'inox is an exciting new expression of style, where art meets stainless steel. Our name speaks to our mission: creating exclusive stainless steel lifestyle products that seamlessly blend quality, beauty, and functionality.

Our in-house design team, comprised of skilled professionals, is dedicated to pushing the boundaries of design, resulting in a product range that celebrates both form and function.

The product range encompasses an exquisite collection of tableware, serving ware, gifts, and home and office accessories, each piece a testament to the artistry of stainless steel.

MODULAR KITCHEN

DINING

BEVERAGES

BAR ACCESSORIES

HOME DECOR

BATH ACCESSORIES

OFFICE ACCESSORIES

Iberjindal, S.L., Spain

The service centre Iberjindal S.L., is a joint venture between Jindal Stainless Limited and Fagor Industrial and is located in South Spain. The Service Centre offers customised formats & just-in-time services delivered to the customers all across Europe. The Stainless Steel coils are directly provided by Jindal Stainless, India. This is Jindal Stainless's first servicing facility in Europe. The Capacities of the Combo Line & the Polishing Line are 18,000 tons per annum & 14,500 tons per annum respectively.

PT Jindal Stainless, Indonesia

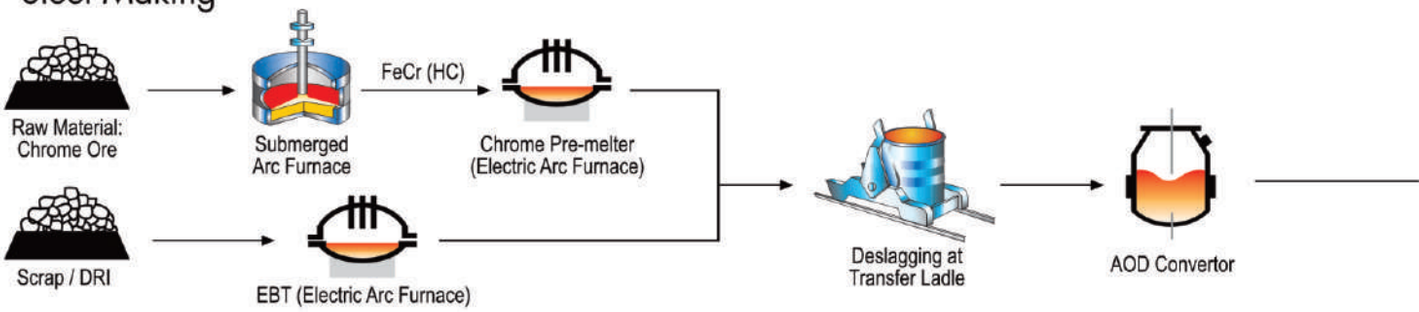
Jindal Stainless has established its foothold in the South East Asian & Oceania market with acquisition of a Stainless Steel Cold Rolling plant from Maspion Stainless Steel, Indonesia. The plant has a cold rolling facility of 150,000 tons per annum.

With its expert technical personnel and modern facilities to produce quality products, PT Jindal Stainless Indonesia is leaving its mark in the markets. This plant produces all grades of Stainless Steel including 200, 300 and 400 series and is well prepared to supply customised requirements.

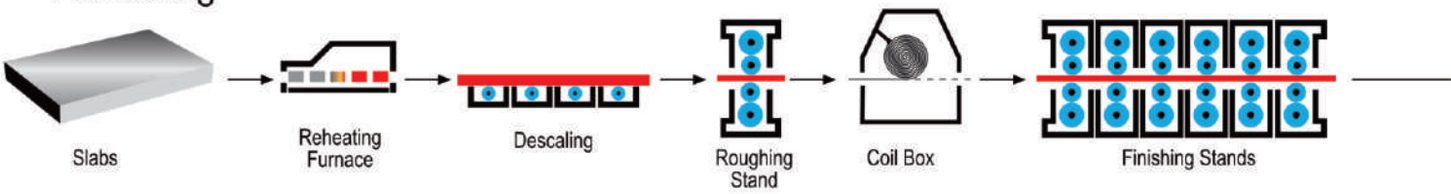
PROCESS FLOW

JAJPUR

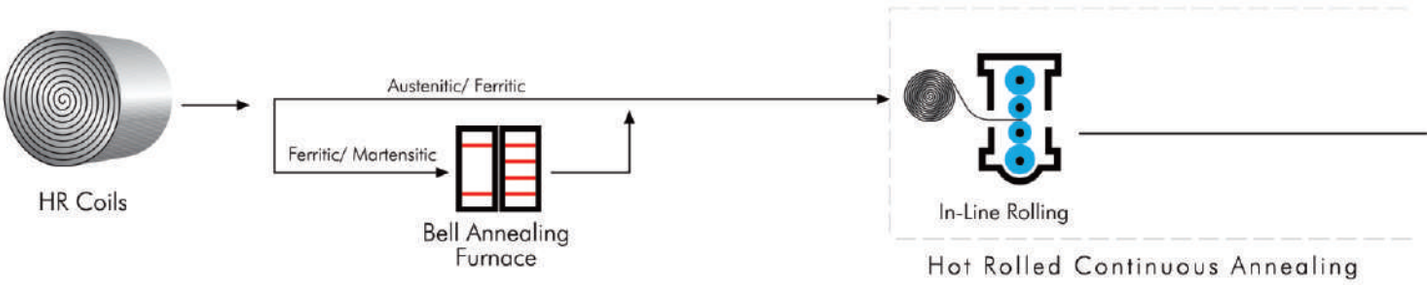
Steel Making

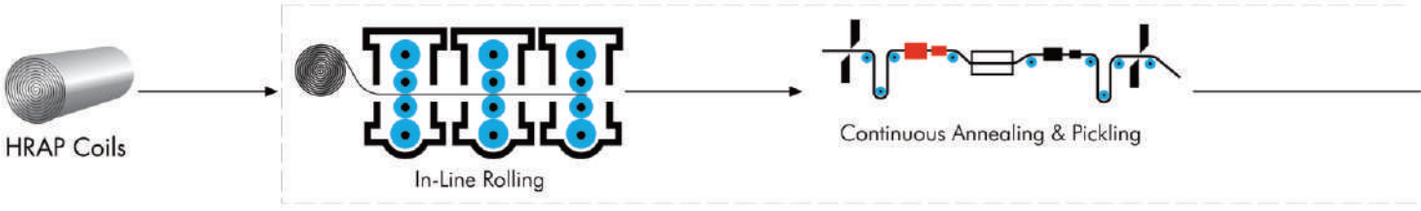


Hot Rolling

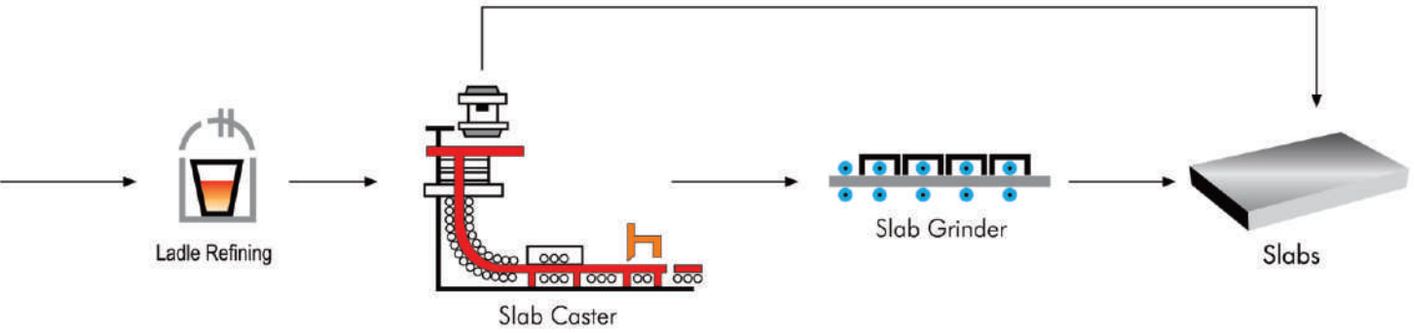


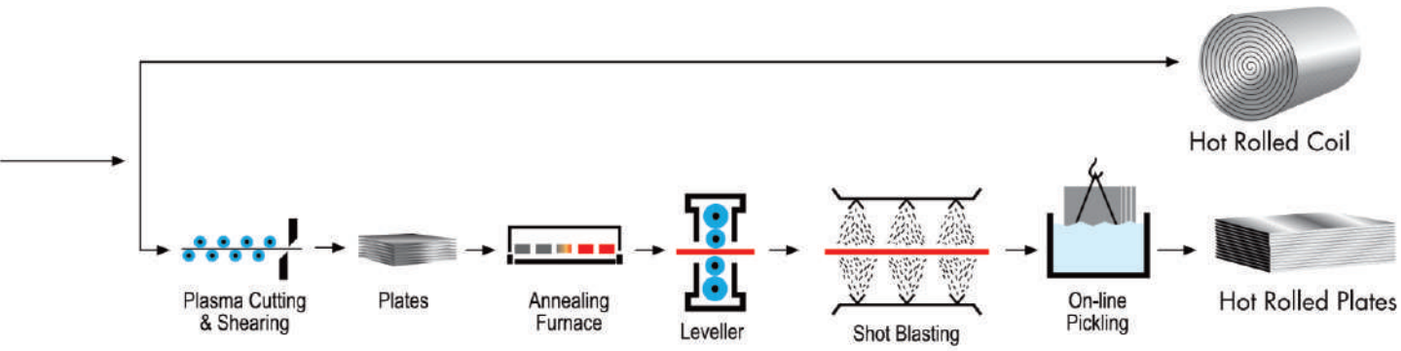
Cold Rolling

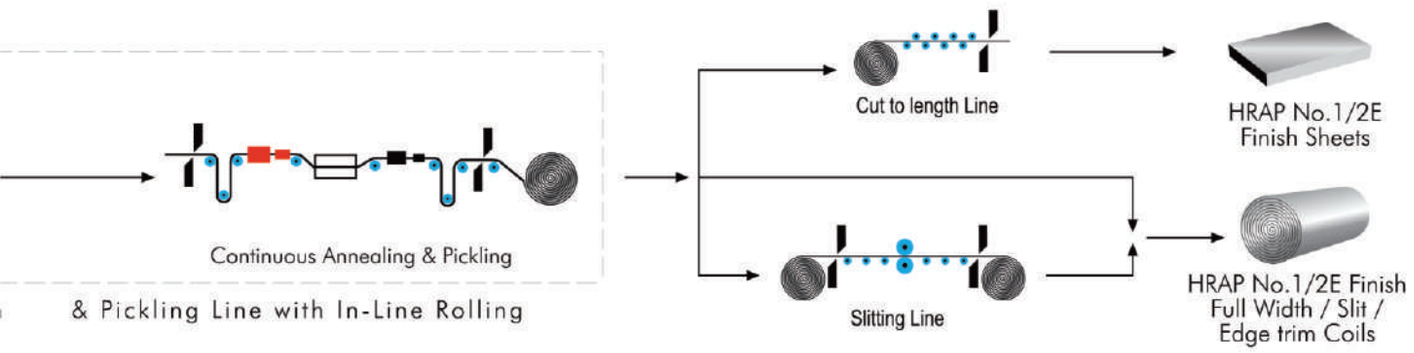


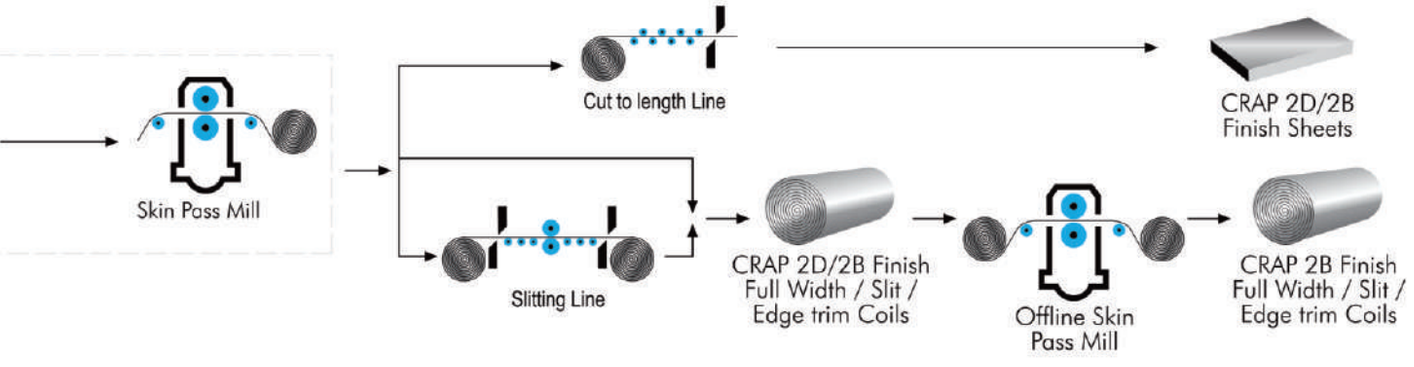


Cold Rolled Continuous Annealing & Pickling Line with In-Line Rolling & Skin Pass


Ladle Refining
Slab Caster
Slab Grinder
Slabs

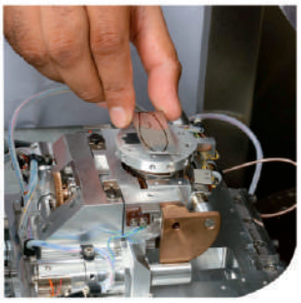

Hot Rolled Coil
Plasma Cutting & Shearing
Plates
Annealing Furnace
Leveller
Shot Blasting
On-line Pickling
Hot Rolled Plates


Cut to length Line
HRAP No.1/2E Finish Sheets
Continuous Annealing & Pickling
& Pickling Line with In-Line Rolling
Slitting Line
HRAP No.1/2E Finish Full Width / Slit / Edge trim Coils


Cut to length Line
CRAP 2D/2B Finish Sheets
Skin Pass Mill
Slitting Line
CRAP 2D/2B Finish Full Width / Slit / Edge trim Coils
Offline Skin Pass Mill
CRAP 2B Finish Full Width / Slit / Edge trim Coils

RESEARCH & DEVELOPMENT

The R&D division plays a pivotal role in retaining and consolidating Jindal Stainless's leadership position in the Stainless Steel industry



Our R&D focuses on continuous upgradation of quality, processes, services and product innovation to develop new products at competitive costs. Cross-fertilization of knowledge between production, quality control and commercial units in order to maintain global standards has been the guiding principle of the R&D function.

- Development of high value products to serve niche markets
- Quality up-gradation of existing products to enable enhanced global acceptance
- Cost reduction by process development, optimisation and refinement to provide a consistent competitive edge
- Technology enhancement to increase quality production
- Foster growth and develop new applications and market segments through knowledge sharing with customers and assisting them in their operations and applications of our products
- Closely interact with reputed national and international laboratories/ scientific institutions/ universities to avail expert services and knowledge for critical investigations

QUALITY ASSURANCE

At Jindal Stainless, quality is not just a goal, it's our way of doing business.

We adhere to internationally recognised management system standards, including ISO 9001:2015 (Quality), ISO 14001:2015 (Environment), ISO 45001:2018 (Occupational Health & Safety), and ISO 50001:2018 (Energy).

Our testing laboratories are NABL accredited (ISO/IEC 17025:2017), ensuring accurate and reliable results.

We hold certifications for CE Marking (Construction Products Regulation) and Pressure Equipment Directive (PED), enabling us to serve the European market. We are also PEMEX certified for the oil and gas sector and meet the requirements of DNV AS and Bureau Veritas for marine and offshore applications.

Our 200, 300, and 400 series stainless steel grades comply with REACH and RoHS regulations regarding restricted substances.

We hold multiple BIS licenses, ensuring compliance with Indian standards such as IS 5522:2014, IS 15997:2012, and IS 6911:2017 for stainless steel, as well as IS 3502:2009 for carbon steel chequered plates.

Our Jajpur unit has Japanese Industrial Standard (JIS) mark certifications (JIS G 4304, JIS G 4305, JIS G 4312), opening doors to the Japanese and East Asian markets.

Jajpur is also certified to IATF 16949:2016, demonstrating our commitment to meeting the rigorous demands of the automotive sector.

we hold ISI marks/BIS certification for various steel grades, including those used in utensils, kitchen appliances, plates, sheets, strips, razor blades, heat resisting steel, and ingots. These certifications solidify our position as a preferred manufa hat consistently meet or exceed their expectations, making Jindal Stainless a trusted partner across a wide range of industries.

HUMAN RESOURCE

The hallmark of Jindal Stainless Human Resource practices is to develop a winning employee value proposition

"Progress with People" forms the fulcrum of Jindal Stainless corporate ethos and human resource principles. The innate values of 'Respect and Care' and sustainable growth through people are demonstrated in the way Jindal Stainless builds teams, creates shared vision, executes its growth plans and nurtures human talent to address the business challenges. This "Progress with People" as integral to Jindal Stainless, guides our Talent Management practices right from on boarding of talents to their deployment on the job and continued professional growth. Alongside, an environment that nurtures meritocracy enables our people to find a rewarding and purposeful engagement at Jindal Stainless.

Our people partnership has been strengthened by the company moving beyond the statutory requirements of providing welfare amenities and social security measures, which have become benchmarks. Schemes of highly subsidized education and health benefits at the grass root levels have reinforced our core values of "Respect & Care" for our people. Jindal Stainless offers contemporary and state-of-the-art recreational, educational and health facilities. Jindal Institute of Medical Sciences, Jindal Modern School and Vidya Devi Jindal School at Hisar are expressions of this. One of the premium facilities at Hisar is the "Stainless Club". Spread over five acres of lush greenery, it offers a host of state-of-the-art recreational facilities to the members.

True to its mission of becoming a learning organization, Jindal Stainless has accelerated its efforts for enhancing and connecting organizational knowledge and corporate performance. Well equipped Knowledge Centers at Hisar and Odisha house vast knowledge resources available in the form of books, journals, conference proceedings, standards, training manuals, etc. With a view to taking knowledge to the Shop Floor, Knowledge Kiosks/ Learning Cells have been established at various locations. The hallmark of Jindal Stainless HR practices is to develop a winning Employee Value Proposition. Supporting this practice are our structured systems and processes to ensure that our people grow in equal acceleration to the company's expanding canvas. Jindal Stainless cherishes this continued "Progress with People".

BEYOND BUSINESS

The Jindal Stainless Touch

CSR is the direct connect between "Head and Heart" and can only be achieved when professionals speak the "Language of the Heart"

In recognition of the conviction that prosperity of communities is integral to the company's success, Jindal Stainless Corporate Social Responsibility model outlines various sustainable development activities for marginalized sections of society across the country. The activities encompasses both societal and individual needs and aspirations. Jindal Stainless "Reach Out" programmes are conducted under the aegis of "JSL Foundation" and are modelled to be strategic tools for growth & Sustainable Development.

Our efforts echo values for a progressive state, promoting and practicing actions beyond mere statutory compliance and continue to create positive impact through our activities that remain true to our cause.

We come together in the key areas of People, Planet & Profit and address issues relating to various segments of the society and people at the bottom of the pyramid.

Jindal Stainless's CSR Initiatives are:

Community Health Programme

The company has initiated community health programme for all- with a focus on preventive health care by providing-

a.Mobile clinics
b.Clean drinking water
c.Hygiene and sanitation

Skill Training

Established a Jindal Institute of Industrial Training at Hisar and Jajpur in partnership with NIIT Foundation, Schneider Electric, Usha International, Don Bosco, Accenture- ITC and have initiated a one year diploma programme in "Stainless Steel Fabrication" in collaboration with the Government of Haryana.

Vocational Courses

Jindal Stainless is also introducing long-term courses in computer networking and hardware to enhance the skills of the aspiring students. Similar courses are also being offered in the electric, hydraulic and hospitality fields.

Computer Learning Centre

To promote and encourage computer literacy, the company has established computer learning centres at various schools in remote areas of Odisha.

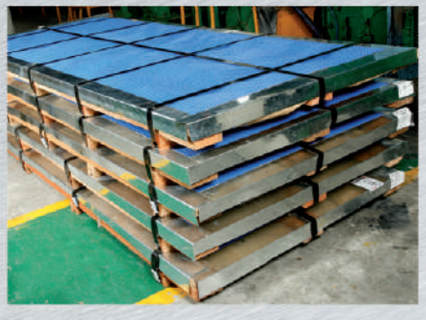
Women Empowerment Programme

Under its women empowerment programme, Jindal Stainless has given a fresh thrust to empowering women both at the work place as also in the community. To reinforce the UN principles, the company has signed the UN statement of support on women empowerment principles. Over the last year, Jindal Stainless has put in concerted efforts to enhance the female diversity ratio.

Jindal Stainless PRODUCTS

Jindal Stainless Ltd. is a name synonymous with unparalleled quality assurance and decades of industry reputation for global quality Stainless Steel flat products across all grades

Stainless Steel - an anti-corrosive aesthetics product is produced with unique two stage liquid steel processing technology. It is the most recycled commodity with varied product life cycle depending upon usage. Stainless Steel products offer immense market potential for industrial, infrastructure, transportation, home, architectural and construction applications



TYPES OF STAINLESS STEEL

Stainless Steel grades are essentially alloys of iron with more than 10.5% chromium. These grades may contain additional elements of nickel, manganese, carbon, nitrogen and silicon. They can further be modified for special purposes by addition of molybdenum, filanium, niobium, silicon, sulphur etc. A wide runge of these grades have been developed based on specific requirements. These are classified into following categories based on their micro structure:

Austenitic Stainless Steel

Austenitic Stainless Steel grades are characterized by superior corrosion and oxidation resistance, weldability, ductility and toughness compared to ferritic and martensitic Stainless Steel grades for similar levels of chromium. Austenitic Stainless Steel grades exhibit excellent resistance to atmospheric corrosion. They effectively withstand attack of organic acids (e.g. acetic, lactic, citric etc.), exhibit good resistance to oxidizing acids (e.g. nitric acid) and fair resistance to mineral acids (e.g. sulfuric acid). These grades are well suited for severe forming. Some grades work harden to a high degree while others have been developed to minimize this tendency. Work hardening is advantageous in certain cases where high strength is required. Austenitic Stainless Steel grades are nonmagnetic in annealed condition but depending on composition, they may become mildly magnetic when cold worked. These Stainless Steel grades possess good high temperature properties such as creep strength and resistance to oxidation or scaling. They also exhibit excellent low temperature ductility and impact strength. Austenitic Stainless Steel grades can be readily fabricated by bending, drawing, spinning, punching, drilling, machining and welding and can be readily polished to a high finish. These attributes make them very versatile and popular for diverse applications in a variety of industries. There are two broad categories of Austenitic Stainless Steel - Chrome-Nickel (300 Series) and Chrome Manganese (200 Series). Currently, Chrome-Nickel is the largest produced Stainless Steel category globally. Typical applications for this category include food processing, chemical plants, pharmaceutical equipment, hospitals, textile, architectural, building construction, kitchenware, consumer durables etc. Chrome-Manganese Stainless Steel is the fastest growing of all Stainless Steel categories on account of its high performance to cost ratio. Its applications include kitchenware, cutlery, sinks, automotive trim, architectural, buildings, furniture, buses, trains and ornamental tubes.

Martensitic Stainless Steel

Martensitic Stainless Steel grades are plain chromium grades containing 11.5 % to 18% of chromium with relatively high carbon content (0.1% - 1.2%). Initially developed for cutlery, these are well suited for applications requiring high hardness and resistance to abrasion and erosion. These grades are magnetic and display fair cold forming characteristics. Although these can be hardened by aircooling, oil quenching is sometimes used to assure uniform hardening. These grades can be welded but require stress relieving after welding. They exhibit their best corrosion resistance in the hardened condition and perform well in mildly corrosive environments. Martensitic Stainless Steel grades are commonly used for knife blades, turbine blades, surgical instruments, fasteners, shafts, spindles, valves and pins.

Ferritic Stainless Steel

Ferritic Stainless Steel grades are non-hardenable plain chromium grades with chromium content varying from 10.5% to 28% and with low carbon content. These are magnetic and exhibit a better resistance to corrosion than martensitic grades. These grades are employed in applications where the desired formability, weldability and corrosion resistance is between those of martensitic and austenitic types. The ferritics can be polished or buffed to achieve high luster.

Duplex Stainless Steel

Duplex Stainless Steel grades contain relatively high chromium (between 18% and 28%) and moderate amounts of nickel (1% to 8%). This combination of ferritic and austenitic structures is called duplex. Many of these grades contain molybdenum (1% to 5%) and nitrogen (0.05% to 0.3%). Some duplex Stainless Steel grades also contain manganese (up to 5%), copper (up to 2%) and tungsten (up to 2%). These grades exhibit high resistance to stress, corrosion cracking and chloride ion attack and have higher yield strength than that of austenitic or ferritic steel grades. These properties combined with suitable design lead to material saving. High quality fabrication and welding are possible if the operator is trained well. These grades are used in marine applications, offshore platforms, paper and pulp industry, chemical, petrochemical and desalination plants.

SPECIFICATIONS

Ferro Alloys (Odisha)

	Cr	Mn (Min)	P (Max)	S (Max)	Si	C
HC Ferro Chrome	55-65%	-	0.05%	0.05%	2.0-4.5%	6-8%

Metallurgical Coke (Odisha)

Met Coke	CSR > 64%	CRI: 24% max	M40: 85% min	M10: 7.0% max	AshL 12.5% max	VM: < 1.0%

Stainless Steel - Dimensions

Product	Max Width (mm)	Thickness (mm)	
		Min	Max
Odisha			
Slab	1650	160	220
Hot Rolled Coil	1650	2	10
HRAP Plate	1620	11	80
HRAP Coil/ Sheet	1620	2.0	10
2E Coil/ Sheet	1600	1.2	6.7
CRAP Coil	1600	0.26	5
Series		200, 300, 400 & Duplex stainless steel	

Product	Max Width (mm)	Thickness (mm)	
		Min	Max
Hisar			
Slab	1275	160	210
Hot Rolled Coil	1270	2	12
HRAP Plate	1250	6	80
HRAP Sheets	1250	0.5	6
HRAP Coil*	1270	2.5	7
CRAP Coil	1250	0.3	3.15
Precision Strips	670	0.05	0.8
Series	200, 300, 400 & Duplex Stainless Steel		

*6 mm max thickness for Austenitic SS and 7 mm max for ferritic - Martensitic SS

Product	Thickness (mm) X width (mm)
Bloom	120 X 120, 130 X 130, 160 X 160, 200 X 200, 200 X 260

Equivalent International Stainless Steel Grades

	JSL Designation/ Grade	UNS Designation	USA - Canada	INDIA/IS	EUROPEAN	CHINESE	GERMANY/DIN	JAPAN/JIS	GOST
Austenitic Cr-Mn	J-201	S20100	201	X10Cr17Mn6Ni4N20	-	-	X12CrMnNiN17-7-5	SUS201	-
	J-201L	S20103	201L	-	1.4371	-	X2CrMnNi17-5-5	-	-
	J-201LN	S20153	201LN	X02Cr17Mn7Ni4N	-	-	-	-	-
	J-202	S20200	202	X10Cr18Mn9Ni5	-	-	X12CrMnNiN18-9-5	SUS202	-
	-	S20430	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
Austenitic Cr-Ni	J-301	S30100	301	X 10Cr17Ni7	1.4310	1Cr17Ni7	X12CrNi18-8	SUS301	-
	J301L	S30103	301L	X 02Cr17Ni7	-	-	-	-	
	J301LN	S30153	301LN	X02Cr17Ni7N	1.4318	-	X2CrNiN18-7	-	-
	J-304	S30400	304	X04Cr19Ni9	1.4301	0Cr18Ni9	X5CrNi18-10	SUS304	-
	J-304H	S30409	304H	X 07Cr19Ni9	-	-	-	-	-
	J304L	S30403	304L	X 02Cr19Ni10	1.4307	-	X2CrNi18-9	SUS304L	-
	J-304LN	S30453	304LN	X 02Cr19Ni10N	1.4311	-	X2CrNiN18-10	SUS304LN	-
	J30815	S30815	-	X07Cr21Ni11Ce	1.4835	-	-	-	-
	J-309S	S30908	309S	X 04Cr23Ni14	1.4833	1Cr23Ni13	X7CrNi23-14	SUS309S	-
	J-310S	S31008	310S	X 04Cr25Ni20	1.4845	0Cr25Ni20	X12CrNi25-21	SUS310S	20Ch23N18
	J-316	S31600	316	X04Cr17Ni12Mo2	1.4401	0Cr17Ni12Mo2	X5CrNiMo17-12-2	SUS316	-
	J-316L	S31603	316L	X02Cr17Ni12Mo2	1.4404	00Cr17Ni14Mo2	X2CrNiMo17-13-2	SUS316L	-
	J-316LN	S31653	316LN	X02Cr17Ni12Mo2N	1.4429	-	X2CrNiMoN17-3-3	SUS316LN	-
	J-316Ti	S31635	316Ti	X04Cr17Ni12Mo2Ti	1.4571	0Cr18Ni12Mo2Ti	X6CrNiMoTi17-12-2	SUS316Ti	10Ch17N13M2T
	J-317	S31700	317	X 04Cr19Ni13Mo3	-	-	-	-	-
	J-317L	S31703	317L	X 02Cr19Ni13Mo3	1.4438	00Cr19Ni13Mo3	X2CrNiMo18-15-4	SUS317L	-
	J-317LN	S31753	317LN	X02Cr19Ni12Mo3N	-	-	-	-	-
	J31727	S31727	-	-	-	-	-	-	-
	J-321	S32100	321	X04Cr18Ni10Ti	1.4541	0Cr18Ni10Ti	X6CrNiTi18-10	SUS321	08Ch18N10T
	J-347	S34700	347	X04Cr18Ni10Nb	1.4550	0Cr18Ni11Nb	X6CrNiNb18-10	SUS347	08Ch18N12B
	J-904L	N08904	-	X02Cr21Ni25Cu	1.4539	-	-	-	-
Martensitic	J-410	S41000	410	X12Cr12	1.4006	1Cr12	X12Cr13	SUS410	-
	J-415	S41500	-	X02Cr13Ni4Mn1Mo1	1.4313	-	X3CrNiMo13-4	-	-
	J-420	S42000	420	X20Cr13	1.4021	-	X20Cr13	SUS420JI	-
	J-420J1	-	-	X 20Cr13	1.4021	-	-	SUS 420J1	-
	J-420J2	-	-	X 30Cr13	1.4028	-	-	SUS 420J2	-
	J-420MoV	-	-	-	1.4116	-	-	-	-
	J-431	S43100	431	X 15Cr16Ni2	1.4057	1Cr17Ni2	X17CrNi16-2	-	20Ch17N2
	JBS-	-	-	-	-	-	-	-	-
Ferritic	J-405	S40500	405	X 04Cr12Al	1.4002	0Cr13Al	X6CrAl13	SUS405	-
	J-409	S40900	409	X 02Cr12Ti	1.4512	-	X2CrTi12	SUH409	-
	J-409Ni	S40975	-	X02Cr12Ni1Ti	1.4003	-	-	-	-
	J-410S	S41008	410S	X 04Cr12	1.4000	0Cr13	X6Cr-13	SUS410S	-
	J-430	S43000	430	X07Cr17	1.4016	1Cr17	X6Cr17	SUS430	-
	J-430Ti	-	-	X02Cr17TiNb	-	-	X3CrTi17	SUS430LX	-
	J-432	-	-	X02Cr18Mo1TiNbZr	-	-	-	SUS 436J1L	-
	J-436	S43600	436	X02Cr17Mo1Nb	-	-	-	-	-
	J-436L	S43932	436L	X02Cr17Mo2TiNbZr	-	-	-	SUS436L	-
	J-439	S43035	439	X02Cr18Ti	-	00Cr18Ti	X3CrTi17	-	-
	J-441	S43940	-	X02Cr19TiNb	1.4509	-	X2CrTiNb18	-	-
	J-446	S44600	-	X10Cr25	1.4749	-	X18 CrN28	-	-
Ferritic + Martensitic									
	J-409M	-	-	-	-	-	-	-	-
Duplex (Austenitic+Ferritic)									
	J-2205	S32205	2205	X02Cr22Ni6Mo3N	1.4462	-	-	-	-
	J-2304	S32304	2304	X02Cr23Ni4CuN	1.4362	-	X2CrN N 23-4	-	-

SPECIFICATIONS

CHEMICAL COMPOSITION

	JSL Designation/ Grade	%C (Max)	%Mn (Max)	%P (Max)	%S (Max)	%Si (Max)	%Cr	%Ni
Austenitic Cr-Mn*	J-201#	0.15	5.5-7.5	0.060	0.030	1.00	16.00-18.00	3.50-5.50
	J-201L	0.030	5.5-7.5	0.045	0.030	0.75	16.00 -18.00	3.50-5.50
	J-201LN	0.030	6.4-7.5	0.045	0.015	0.75	16.00-17.50	4.00-5.00
	J-202	0.15	7.5-10.0	0.060	0.030	1.00	17.00-19.00	4.00-6.00
	J-204 Cu¶	0.10	6.5-9.0	0.060	0.010	0.75	16.00-17.50	1.50-3.50
	JSLAUS (J1)	0.08	6.0-8.0	0.060	0.010	0.75	16.00-18.00	4.00-6.00
	J-4	0.10	8.50-10.0	0.080	0.010	0.75	15.00-16.00	1.00-2.00
	JSLUDD	0.12	9.7-10.7	0.1	0.010	0.75	15.00-16.00	0.45-0.60
	JSLUSD	0.12	9.7-10.7	0.1	0.010	0.75	14.50-15.50	0.40-0.50
	JT	0.12	9.8-10.8	0.1	0.010	0.75	14.00-15.25	0.40
Austenitic Cr-Ni	J-301	0.15	2.00	0.045	0.030	1.00	16.00-18.00	6.00-8.00
	J-301L	0.030	2.00	0.045	0.030	1.00	16.00-18.00	6.00-8.00
	J-301LN	0.030	2.00	0.045	0.030	1.00	16.00-18.00	6.00-8.00
	J-304	0.07	2.00	0.045	0.030	0.75	18.00-19.50	8.00-10.50
	J-304H	0.04-0.10	2.00	0.045	0.030	0.75	18.00-20.00	8.00-10.50
	J-304L	0.030	2.00	0.045	0.030	0.75	18.00-19.50	8.00-12.00
	J-304LN	0.030	2.00	0.045	0.030	0.75	18.00-20.00	8.00-12.00
	J-309	0.20	2.00	0.045	0.030	0.75	22.00-24.00	12.00-15.00
	J-309S	0.08	2.00	0.045	0.030	0.75	22.00-24.00	12.00-15.00
	J-310	0.25	2.00	0.045	0.030	1.50	24.00-26.00	19.00-22.00
	J-310S	0.08	2.00	0.045	0.030	1.50	24.00-26.00	19.00-22.00
	J-316	0.08	2.00	0.045	0.030	0.75	16.00-18.00	10.00-14.00
	J-316L	0.030	2.00	0.045	0.030	0.75	16.00-18.00	10.00-14.00
	J-316LN	0.030	2.00	0.045	0.030	0.75	16.00-18.00	10.00-14.00
	J-316Ti	0.08	2.00	0.045	0.030	0.75	16.00-18.00	10.00-14.00
	J-317	0.08	2.00	0.045	0.030	0.75	18.00-20.00	11.00-15.00
	J-317L	0.030	2.00	0.045	0.030	0.75	18.00-20.00	11.00-15.00
	J-317LN	0.030	2.00	0.045	0.030	0.75	18.00-20.00	11.00-15.00
	J-31727	0.030	1.00	0.030	0.030	1.00	17.50-19.00	14.50-16.50
	J-321	0.08	2.00	0.045	0.030	0.75	17.00-19.00	9.00-12.00
	J-347	0.08	2.00	0.045	0.030	0.75	17.00-19.00	9.00-13.00
Martensitic	J-410	0.08-0.15	1.00	0.040	0.030	1.00	11.50-13.50	0.75 max
	J-415	0.05	0.50-1.00	0.030	0.030	0.60	11.50-14.00	3.50-5.50
	J-420	0.15 min	1.00	0.040	0.030	1.00	12.00-14.00	0.75 max
	J-431	0.20	1.00	0.040	0.030	1.00	15.00-17.00	1.25-2.50
	JBS	0.6-0.7	1.00	0.030	0.015	0.75	12.50-13.50	-
Ferritic	J-405	0.08	1.00	0.040	0.030	1.00	11.50-14.50	0.60
	J-409	0.030	1.00	0.040	0.020	1.00	10.50-11.70	0.50 max
	J-409L	0.030	1.00	0.040	0.030	1.00	10.50-11.70	0.50 max
	J-410S	0.08	1.00	0.040	0.030	1.00	11.50-13.50	0.60 max
	J-430	0.12	1.00	0.040	0.030	1.00	16.00-18.00	0.75 max
	J-430Ti	0.030	1.00	0.040	0.030	1.00	16.00-19.00	-
	J-436	0.120	1.00	0.040	0.030	1.00	16.00-18.00	-
	J-436L	0.025	1.00	0.040	0.030	1.00	16.00-19.00	-
	J-439	0.030	1.00	0.040	0.030	1.00	17.00-19.00	0.50 max
	J-441	0.030	1.00	0.040	0.015	1.00	17.50-18.50	-
Ferritic + Martensitic								
	J-409M	0.030	0.8-1.5	0.030	0.030	1.00	10.80-12.50	1.50 max
Duplex (Austenitic+Ferritic)								
	J-2205	0.030	2.00	0.030	0.020	1.00	22.00-23.00	4.50-6.50
	J-2304	0.030	2.50	0.040	0.030	1.00	21.50-24.50	3.00-5.50
	J-31803	0.030	2.00	0.030	0.020	1.00	21.00-23.00	4.50-6.50

*These grades can be supplied with 0.005%S max also.
This grade will be supplied with 0.08%C max for improved corrosion resistance.
¶ This grade can be supplied in two versions of 0.08%C max or 0.1%C max.
Specific Chemical and Mechanical properties can be supplied by mutual agreement.

					MECHANICAL PROPERTIES			
	JSL Designation/ Grade	%Mo	N ppm (Max)	% Others	Yield Strength MPa (min)	Tensile Strength MPa (min)	% Elongation (min)	Hardness Rockwell B (max)
Austenitic Cr-Mn	J201	-	2500	-	260	515	40	95
	J201L	-	2500	-	260	655	40	100
	J201LN	-	1000-2500	Cu = 1.0 Max	310	655	45	100
	J202	-	2500	-	260	620	40	100
	J204Cu	-	1000-2500	Cu = 2.0-4.0	310	650	40	-
	JSL AUS (J1)	-	500-1500	Cu = 1.5-2.0	275	600	40	-
	J4	-	1000-2000	Cu = 1.5-2.0	345	650	40	-
	JSL U DD	-	1000-2000	Cu = 1.75-2.50	345	650	40	-
	JSL U SD-M	-	1000-2000	Cu = 0.60-0.80	400	800	30	-
	JT	-	1000-2000	Cu = 0.60-0.80	400	800	30	-
Austenitic Cr-Ni	J-301	-	1000	-	205	515	40	95
	J-301L	-	2000	-	220	550	45	100
	J-301LN	-	700-2000	-	240	550	45	100
	J-304	-	1000	-	205	515	40	92
	J-304H	-	-	-	205	515	40	92
	J-304L	-	1000	-	170	485	40	92
	J-304N	-	1000- 1600	-	240	550	30	95
	J-304LN	-	1000-1600	-	205	515	40	95
	J-30815	-	1400-2000	Ce=0.03-0.08	310	600	40	95
	J-309S	-	-	-	205	515	40	95
	J-310S	-	-	-	205	515	40	95
	J-316	2.00-3.00	1000	-	205	515	40	95
	J-316L	2.00-3.00	1000	-	170	485	40	95
	J-316LN	2.00-3.00	1000-1600	-	205	515	40	95
	J-316Ti	2.00-3.00	1000	Ti=5X(C+N) Min, 0.70 Max	205	515	40	95
	J-317	3.00-4.00	1000	-	205	515	35	95
	J-317L	3.00-4.00	1000	-	205	515	40	95
	J-317LN	3.00-4.00	1000-2200	-	240	550	40	95
	J-31727	3.80-4.50	1500-2100	Cu=2.8-4.0	245	550	35	96
	J-321	-	1000	Ti=5X(C+N) Min, 0.70 Max	205	515	40	95
	J-321H	-	-	Ti=4X(C+N) Min, 0.70 Max	205	515	40	95
	J-347	-	-	Nb=10X(C) Min, 1.00 Max	205	515	40	92
	J-904L	4.00-5.00	1000	Cu=1.00-2.00	220	490	35	90
Martensitic	J-410	-	-	-	205	450	20	96
	J-415	0.50-1.00	-	-	620	795	15	32HRC
	J-420	0.50 max	-	-	-	690	15	96
	J-420J1	-	-	-	225	520	18	97
	J-420J2	-	-	-	225	540	18	99
	J-420MoV	0.50-0.80	-	V=0.10-0.20	-	850 max	12	100
	J-431	-	-	-	-	-	-	29HRC
	JBS	-	-	-	-	-	-	-
Ferritic	J-405	-	-	Al=0.10-0.30	170	415	20	88
	J-409L	-	300	Ti=6X (C+N) Min,0.50 Max, Nb = 0.17 max	170	380	20	88
	J-409Ni	-	300	Ti=6X(C+N) Min, 0.75 Max	275	415	20	92
	J-410S	-	-	-	205	415	22	89
	J-430	-	-	-	205	450	22	89
	J-432	0.40-0.80	250	Ti/Nb=8X(C+N) Min, 0.80 Max	245	410	20	96
	J-436	0.75-1.25	-	Nb=5XC Min, 0.70 Max	240	450	22	89
	J-436L	0.75-1.50	250	% Nb or & Ti or % combination = 8X (C+N) Min, 0.80 Max	245	410	20	96
	J-439	-	300	Ti=0.20+4X (C+N) Min, 1.10 Max, Al=0.15 Max	205	415	22	89
	J-441	-	-	Nb=3X% C+0.3 Min. 1% Max, Ti=0.10-0.5%	250	430	18	88
	J-444	1.75-2.50	350	(Ti+Nb) 0.20+4(C+N) Min, 0.80 Max	275	415	20	96
	J-446	-	2500	-	275	515	20	96
	J-430J1L	-	250	Cu= 0.3- 0.8, Nb= 8X(C+N) Min, 0.80 Max	205	390	22	90
Ferritic + Martensetic								
	J-409M	-	300	Ti=0.75 Max	275	450	20	90
Duplex (Austenitic + Ferritic)								
	J-2205	3.0-3.50	1400-2000	-	450	655	25	31HRC
	J-2304	0.05-0.60	500-2000	Cu 0.05 - 0.60	400	600	25	32HRC
	J-32101	0.10-0.80	2000-2500	Cu 0.10 - 0.80	530	700	30	290 Brinell
	J-32750	3-5	2400-3200	Cu: 0.5 max	550	795	15	32 HRC
	J-32760	3-4	2000-3000	Cu: 0.5-1.0, W: 0.5-1.0	550	750	25	32 HRC

Grades other than these can also be manufactured. Specific chemical and mechanical properties can also be supplied by mutual agreement.

CHROME MANGANESE

Jindal Stainless is the largest producer of Chrome Manganese Stainless Steel in the World

Share of Cr-Mn grade has witnessed the fastest growth in global Stainless Steel consumption in recent past

Helps in sustainable growth of Stainless Steel through minimising substitution by other competing material

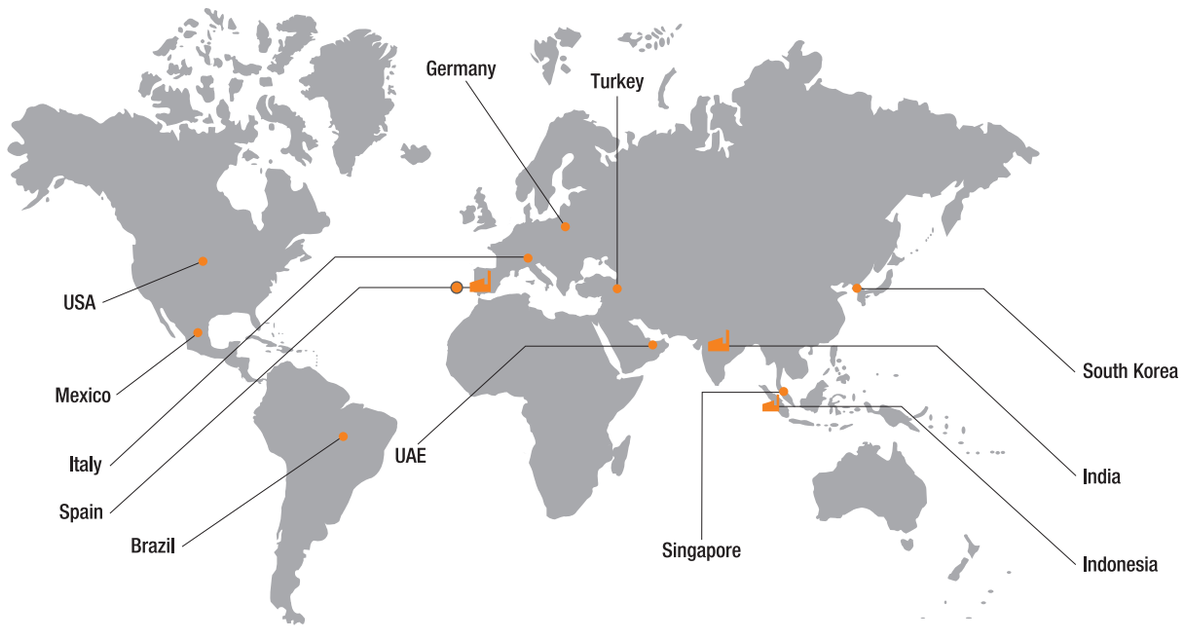
Typical Applications:

Due to their good formability, weldability and corrosion resistance, Jindal Stainless 200 series grades can be used for applications as detailed below:

Catering	JSL AUS & 204 Cu	Pressure cookers, deep drawn utensils, kitchen sinks, milk cans, food processing, water filters, storage vessels
	J4	Shallow/medium drawn utensils, tableware, catering, stand for water filters, flasks
Consumer Durables	JSL AUS & 204 Cu	White goods/house hold appliances, washing machines, microwave ovens, dish washers, thermo-ware, mobile case and parts
	J4	White goods dry applications, steel furniture, decorative tubing
Architecture, Building & Construction	JSL AUS & 204 Cu	Outdoor non-coastal, door window frames, elevators
	J4	Indoor decoration, hand rails, ornaments, tubes, door frames, handles and knobs
Automotive	JSL AUS & 204 Cu	Motor cycle rim, wheel cover, wiper arm, bus body, rail car
	J4	Interior decorative
Industry	JSL AUS & 204 Cu	Wine, Beer, Sugar industry

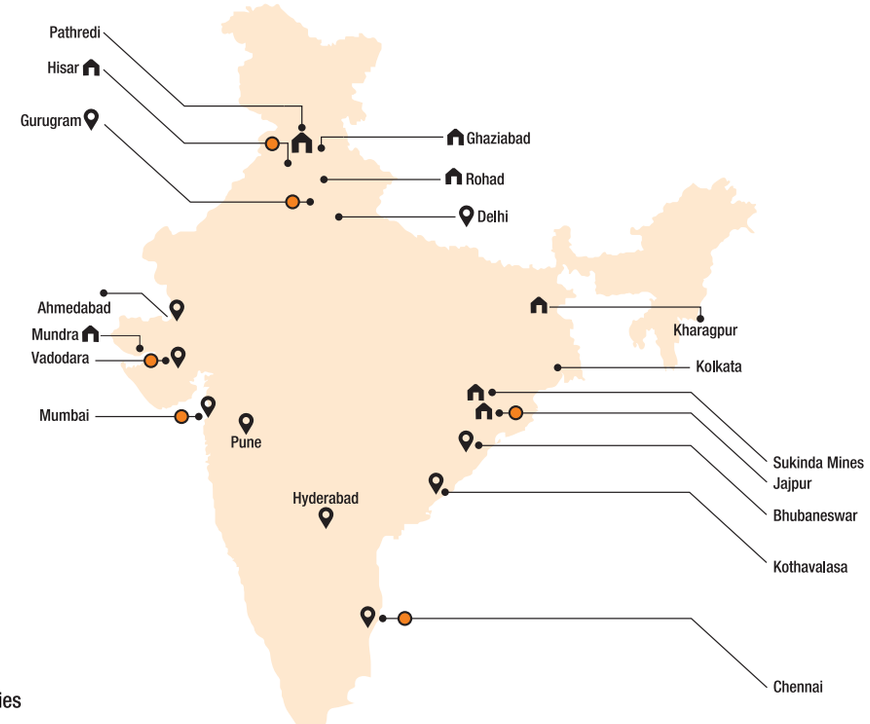
OUR NETWORK

OVERSEAS NETWORK



- Manufacturing Facility
- International Sales Offices
- Service Centre

DOMESTIC NETWORK



- Manufacturing Facilities
- Domestic Sales Offices
- Service Centres

JINDAL STAINLESS NETWORK

CORPORATE OFFICE

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Chromeni Steels Private Limited
Survey No. 74, 75, National Highway No 8A,
PO Near Mokha Toll Gate, Ratadia - 370410,
Dist. Mundra, Gujarat

Rathi Super Steel Limited
A 1 Industrial Area South of G T Road
Ghaziabad, Uttar Pradesh - 201009

Indonesia
Kawasan Industry Maspion, Unit-V
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REGISTERED OFFICE

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Hisar
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Kalinga Nagar Industrial Complex,
Duburi, Dist. Jajpur - 755026, Odisha, India

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Tal - Savli , Vadodara - 391 775
Gujarat, Cell : 99980 13467

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Ctra. Cordoba-Malaga, Km 80'800
14900 LUCENA (Cordoba), Spain
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Jindal Stainless Ltd.
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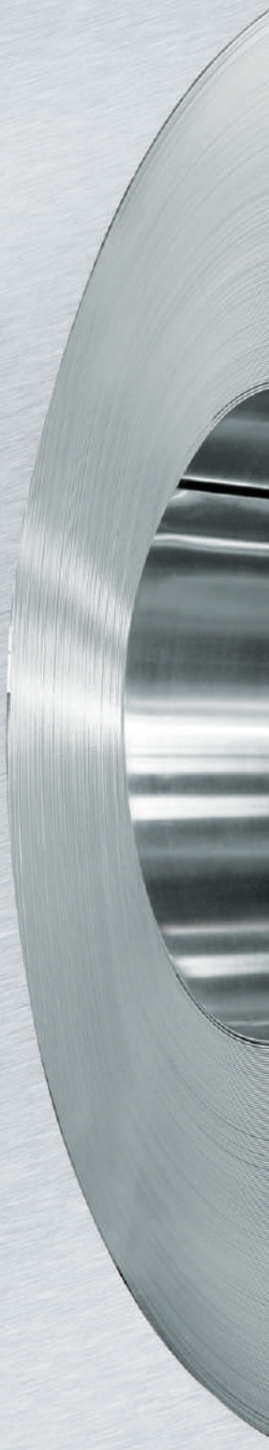

JINDAL STAINLESS

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