

The top half of the image features a collage of geometric shapes and pipe images. A large diamond shape in the center contains a close-up of several small, circular pipe ends. To the right, a stack of pipes with green protective caps is visible. A large, light blue triangle points downwards from the top right corner. The background is white.

You can count on us

**SEAMLESS PIPES AND TUBES
(CARBON AND ALLOY STEEL)**



JINDAL SAW LTD.
TOTAL PIPE SOLUTIONS

JINDAL SAW LIMITED

Who we are. What we do. How we do it.

An eventful journey began in 1984, with a single product and led to the establishment of a multi-product company in just over three decades. Jindal SAW Limited is a part of the multi-billion dollar O.P. Jindal Group, which is one of the topmost industry houses in India and the foremost indigenous steel producer and exporter.

Achievements in a nutshell:

- Complete solutions provider in the pipe industry.
- Manufacturing expanse: Large Diameter Submerged Arc Welded pipes and Spiral pipes, Ductile Iron pipes & fittings, Carbon & Alloy Steel (Seamless) pipes & tubes, Stainless Steel (Seamless & Welded) pipes & tubes, and many other supporting verticals like hot induction bends, connector casings, anti-corrosion & concrete weight coatings, pellets & Clad pipes.
- A widespread global presence, operating through production facilities strategically located in India, the United States of America (USA) and the United Arab Emirates (UAE). The European Union (EU) is supplied through an associated entity.
- An extensive and varied customer base, including some of the biggest companies and entities in global oil and gas production, water/sewerage supplies, engineering and procurement (linked to oil and gas), transportation, power generation and certain industrial applications.
- A strong foundation of knowledge, a well-diversified and de-risked model, and an uninterrupted flow of business know-how across operations, all riding on competent human resources.
- The highest standards of corporate governance, stringently followed, across the organisation and its dealings with external stakeholders. Internal and external auditors are amongst the four largest audit firms.
- A solid financial standing that supports operations and the pursuit of big opportunities in every stream.
- Credit ratings from CARE (CARE A1+ and CARE AA-) and Brickwork (BWR AA)

**Because rhythm
creates music**
*Just as our units consistently
manufacture masterpieces*

STRATEGIC BUSINESS UNITS

Large Diameter Submerged Arc Welded Line Pipes (LSAW Pipes):

- Submerged Arc Welded (SAW) pipes, typically of large diameter, find application in transportation of oil, gas, water and slurry. We are one of the largest SAW pipe manufacturing businesses in the world.
- Our facilities can produce pipes of up to 156" in outer diameter. Besides India, the company exports products to Americas, Middle East and Africa.

Ductile Iron Pipes (DI Pipes):

Ductile Iron pipes find usage in carriage of water (both potable and waste). Given our overall capacities of 0.8 MTPA including our Abu Dhabi facility, our operation is counted as amongst the top three largest DI pipe producers in the world. This is a high-potential business where we supply pipes ranging up to 2,200 mm in diameter with external and internal coatings.

Seamless Pipes and Tubes (Carbon & Alloy Steel):

- Carbon and Alloy Steel (Seamless) pipes and tubes are versatile and find a wide variety of applications across different industries.

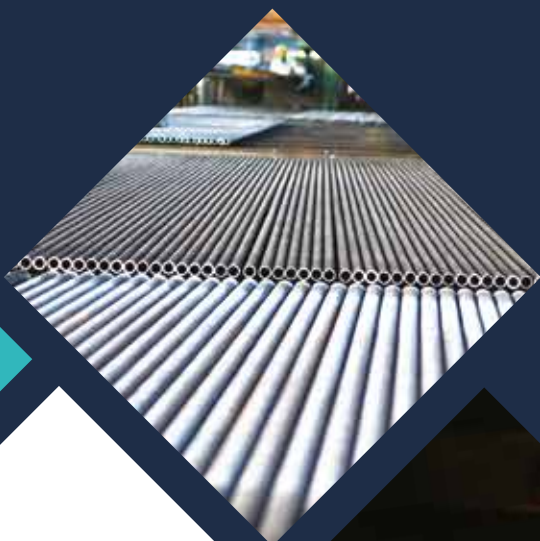
- Our portfolio covers line pipes, process pipes, OCTG and pipes and tubes for general mechanical engineering. The company has emerged as a trusted supplier to major OEMs domestically and abroad. Some of our clients include ONGC, Oil India, GE, Thermax, Godrej, SKF, Petrofac, L&T, Proclad for ADNOC, IDMC Ltd., Tata and Biocon.

Mining and Pellet:

The company operates a mine-head, integrated beneficiation and pellet production facility of 1.5 million MTPA at Bhilwara, Rajasthan. We have obtained a 50-year mining lease for a low grade iron ore mine spread out over 1989 acres. Ours is the first beneficiation plant in the country at a mine head. Through beneficiation, we are upgrading the low-grade magnetite iron ore to high grade with over 65% Fe grade. The majority of these pellets are sold on merchant basis to the market, both domestically and via export.

Because steady builds empires

Standing tall to connect the world through our products

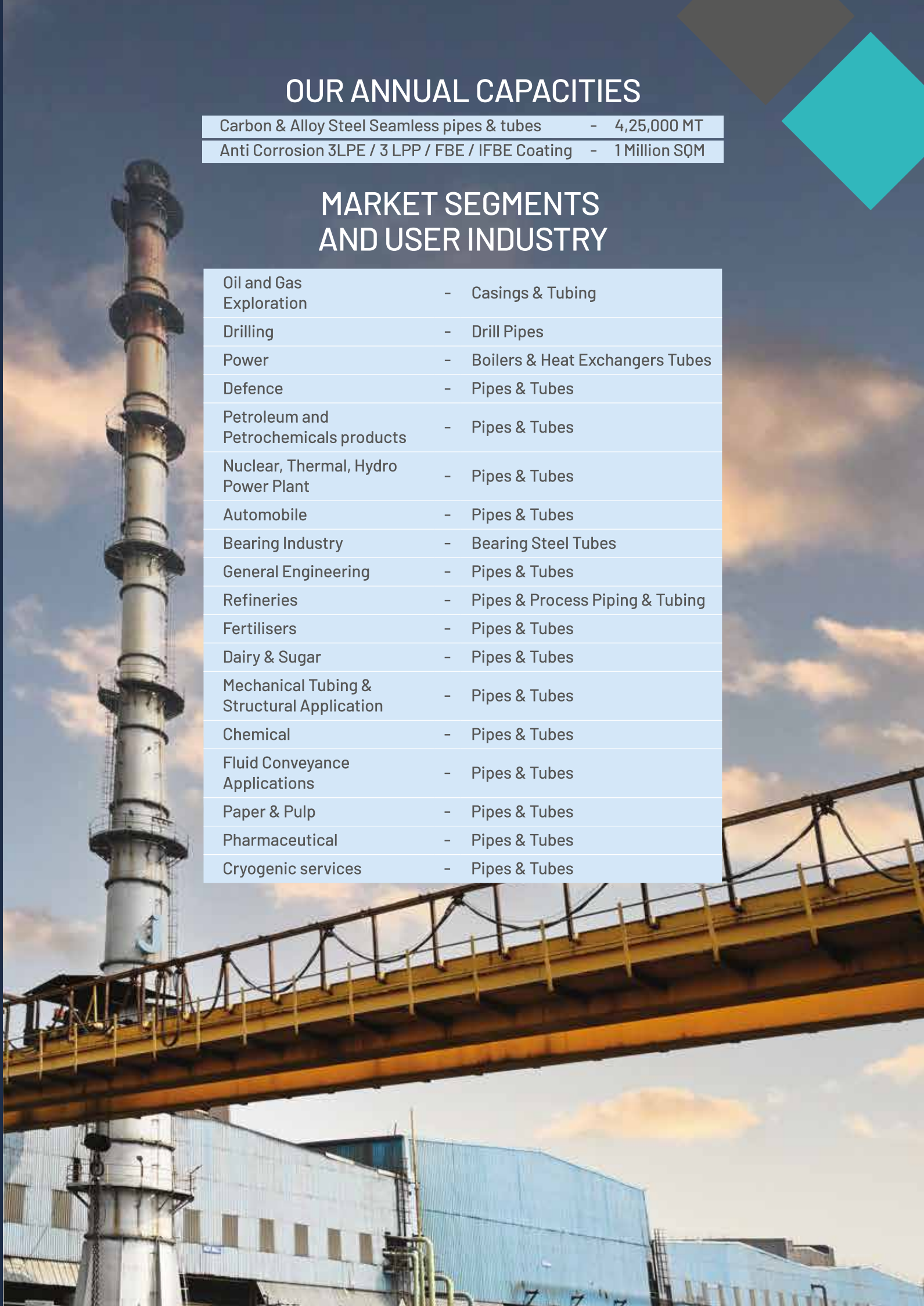


OUR ANNUAL CAPACITIES

Carbon & Alloy Steel Seamless pipes & tubes	- 4,25,000 MT
Anti Corrosion 3LPE / 3 LPP / FBE / IFBE Coating	- 1 Million SQM

MARKET SEGMENTS AND USER INDUSTRY

Oil and Gas Exploration	- Casings & Tubing
Drilling	- Drill Pipes
Power	- Boilers & Heat Exchangers Tubes
Defence	- Pipes & Tubes
Petroleum and Petrochemicals products	- Pipes & Tubes
Nuclear, Thermal, Hydro Power Plant	- Pipes & Tubes
Automobile	- Pipes & Tubes
Bearing Industry	- Bearing Steel Tubes
General Engineering	- Pipes & Tubes
Refineries	- Pipes & Process Piping & Tubing
Fertilisers	- Pipes & Tubes
Dairy & Sugar	- Pipes & Tubes
Mechanical Tubing & Structural Application	- Pipes & Tubes
Chemical	- Pipes & Tubes
Fluid Conveyance Applications	- Pipes & Tubes
Paper & Pulp	- Pipes & Tubes
Pharmaceutical	- Pipes & Tubes
Cryogenic services	- Pipes & Tubes



PRODUCT PROFILE

PRODUCT	OUTSIDE DIAMETER (D)	WALL THICKNESS (t)	OUTSIDE DIAMETER (D)	WALL THICKNESS (t)
	(inch)	(inch)	(mm)	(mm)
Hot Finished Carbon / Alloy Steel Seamless tubes and pipes	1.00 to 16.00	0.13 to 1.00	33.40 to 406.40	3.38 to 25.40
Seamless Casing and Tubing conforming to API 5CT	2-3/8 to 13-3/8	0.19 to 0.51	60.30 to 339.70	4.83 to 13.06
Seamless Drill Pipes conforming to API 5DP	2-3/8 to 6-5/8	0.25 to 0.50	60.30 to 168.30	6.45 to 12.70
Cold Finished Carbon/ Alloy Steel Seamless tubes and pipes	0.75 to 6.50	0.08 to 0.75	19.05 to 165.10	2.00 to 19.05
Couplings for OCTG Products	2-3/8 to 13-3/8		60.30 to 339.70	
Anti-Corrosion 3LPE / 3 LPP / FBE / IFBE Coating	2" to 14" as per ISO 21809 / DIN 30670 / 30678 and customer requirements			
SPECIFICATION: ASTM (A53, A106), SA (53,106,179,192,210,213), DIN (1629, 2391, 17175), IS (3601, 3074), BS (3059) API 5L (B, X42, X52, X56, X60, X65, X70 PSL 1 & PSL 2 with Annexure J & H) API 5CT (J55, K55, N80, L80, L80 (13 Cr), C90, C95, T95, P110, P110 HC, Q125) API 5DP (E75, X95, G105, S135) PSL 1, PSL 2 & PSL3				
MAJOR STEEL GRADES: SAE 1019, 1035, 1040, 1045, 1518, 1541, 4130, 4140, T11, T12, T22, T91, 8620, EN 19, ST 52, 16MnCr5, 20MnCr5, 20MnV6, 100Cr6, 52100				

Because uniformity builds trust

Just like our facilities that churn out top-quality paragons



PLANT & MANUFACTURING FACILITIES (INFRASTRUCTURE)

1. Hot Finishing

- Rotary Hearth Furnace
- Conical Type Piercing Mill
- Premium Quality Finishing Mill
- Stretch Reducing Mill

2. 16" Mill to produce 8" – 16" OD

- Rotary Elongator Mill
- Reeling Mill
- Sizing Mill

3. API Finishing Line

- Upsetter
- Quench and Temper Furnace
- PMC Threading Machine
- Coupling Applicator
- In-house Coupling Manufacturing

4. OCTG Premium Connections

- Hunting Seal Lock XD Premium Connections for Casing, Tubing, PUP Joints and Accessories

5. Coating Plant

- Fusion Bonded Epoxy (FBE)
- 3 Layer Polyethylene (LPE)
- 3 Layer Poly Propylene Coating Line (3LPE)
- Internal Plastic Coating (IPC)

6. Cold Finishing/Cold Drawn

- Push Pointers
- Cold Draw Benches

7. Finishing Facilities

- MFL and Linsinger Cutting Machines
- Heat Treatment Furnaces: Normalising, Annealing, Stress Relieving, Spheroidising, Quench and Temper
- Beveling Machines
- Straightener
- Lacquer Coating Machines
- Automated Bundling Machine

8. Inspection and Testing Facilities

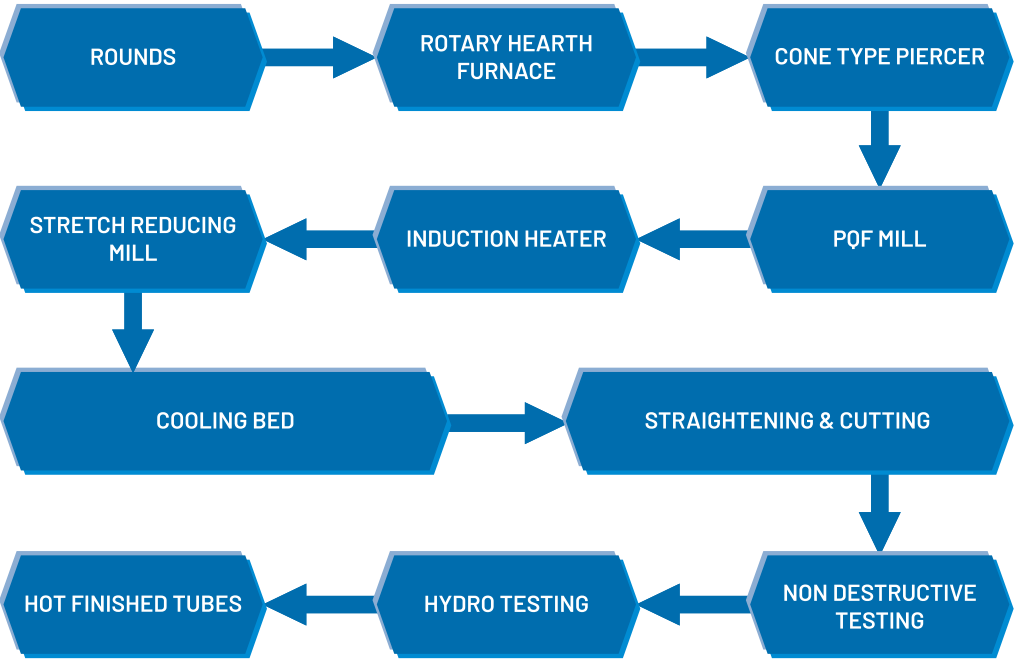
- EMI and UT System: MAC and Tuboscope, USA
 - Eddy Current Testing
 - Leakage Flux Testing
 - Ultrasonic Testing
- Magnetic Particle Inspection
- SSC / HIC Tests as per API 5L / 5CT / NACE Requirements
- Hydrostatic Testing as per API, ASTM, DIN, IS or Equivalent Standards
- Chemical, Mechanical and Metallurgical Testing



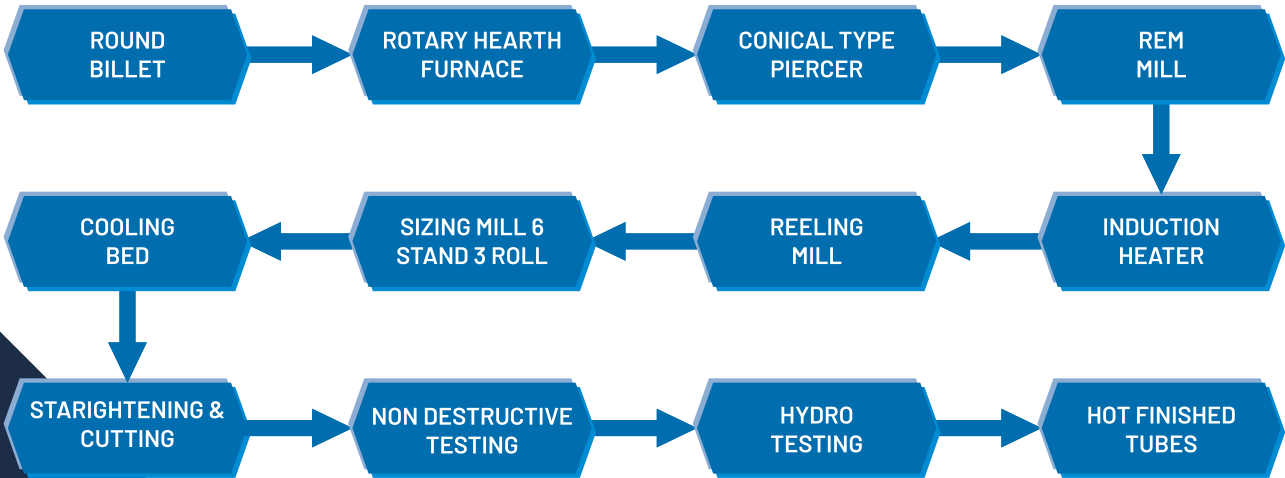
PRODUCT PROCESSES

1. Hot Finishing Process: 1” – 7” OD

The round billet is heated in a rotary hearth furnace and pierced by means of an internal piercing plug and a two-roll conical type piercer. The shell is then rolled in a PQF Mill for wall thickness reduction and shell elongation. It is reheated in an induction furnace and rolled in a stretch-reducing mill to decrease the outside diameter to the desired specifications. Finally, Pipe Finishing is carried out via several processes – air-cooling on a cooling bed, straightening, cutting and bevelling. Finished seamless pipes undergo Hydrostatic testing, Non-Destructive Testing, as well as inspection for dimensional irregularities.

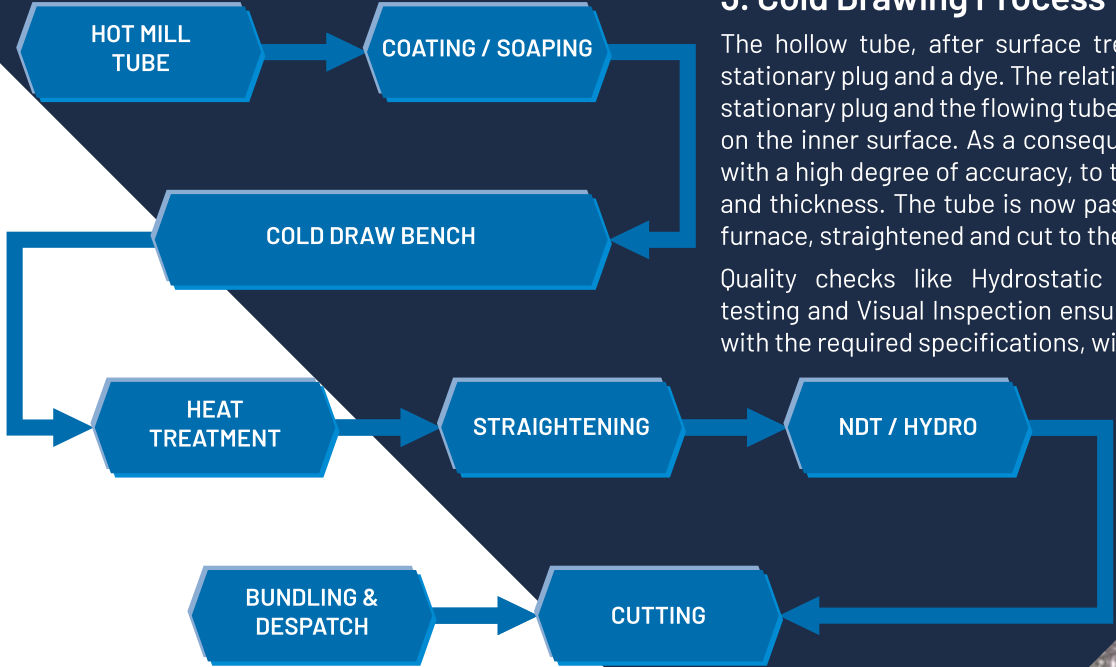


2. Hot Finishing Process: 8” – 16” OD



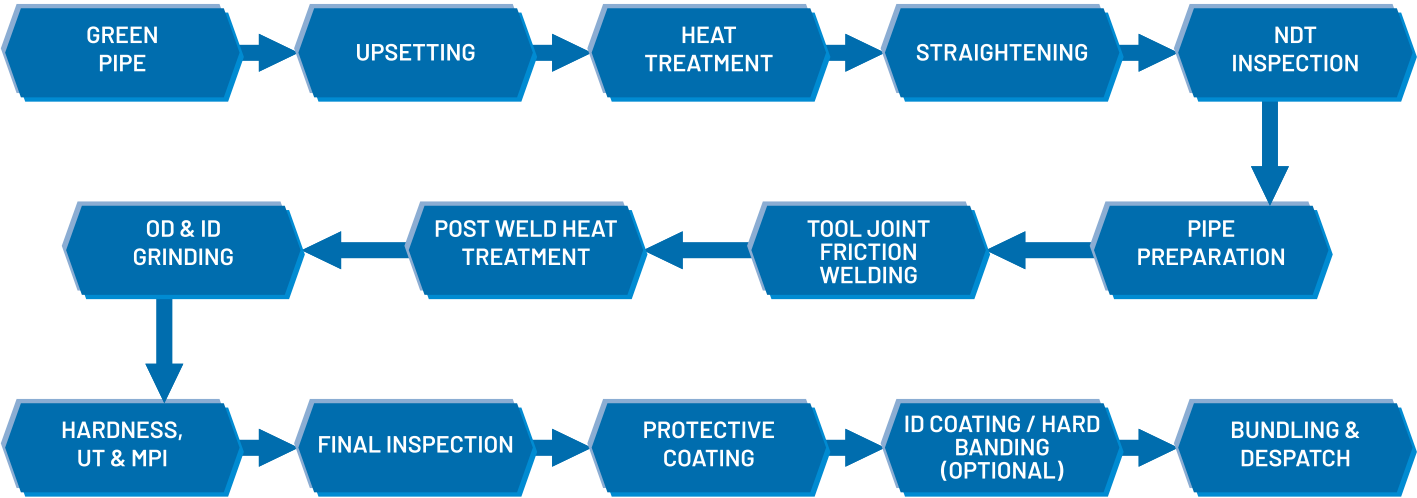
3. Cold Drawing Process

The hollow tube, after surface treatment, is drawn over a stationary plug and a dye. The relative movement between the stationary plug and the flowing tube material results in friction on the inner surface. As a consequence, the tube is reduced with a high degree of accuracy, to the desired outer diameter and thickness. The tube is now passed through an annealing furnace, straightened and cut to the required length. Quality checks like Hydrostatic testing, Non-Destructive testing and Visual Inspection ensure that the product meets with the required specifications, within strict tolerances.



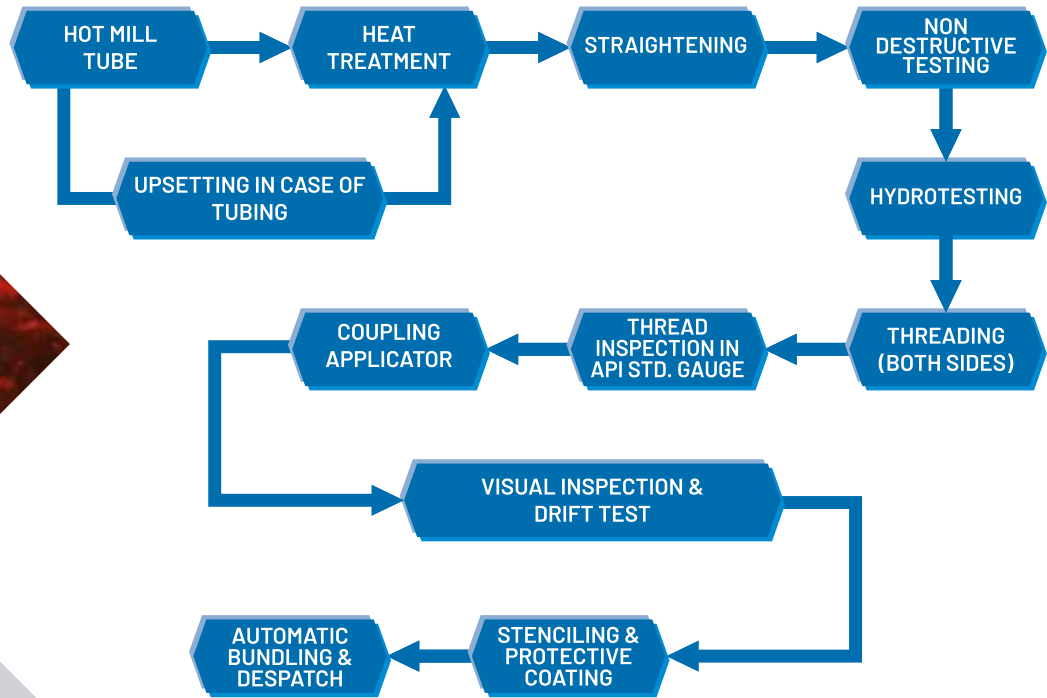
4. Drill Pipe Process

Rolled pipe ends are either External upset or Internal upset or Internal External upset and heat-treated full length by the Quench and Temper process to achieve uniform mechanical properties. The heat-treated pipes are 100% nondestructively inspected for possible longitudinal and transverse defects and wall thickness. Magnetic particle inspection of the upset ends is done to ensure that the upsets are free from defects. The OD and ID and face of the upsets are CNC machined for a clean surface as part of pipe preparation prior to welding. Tools joints are attached to the drill pipe by friction welding to produce a high integrity solid state weld connection between the tool joint and the upset drill pipe tube. Hard Banding and ID coating facilities are also available on customer request.



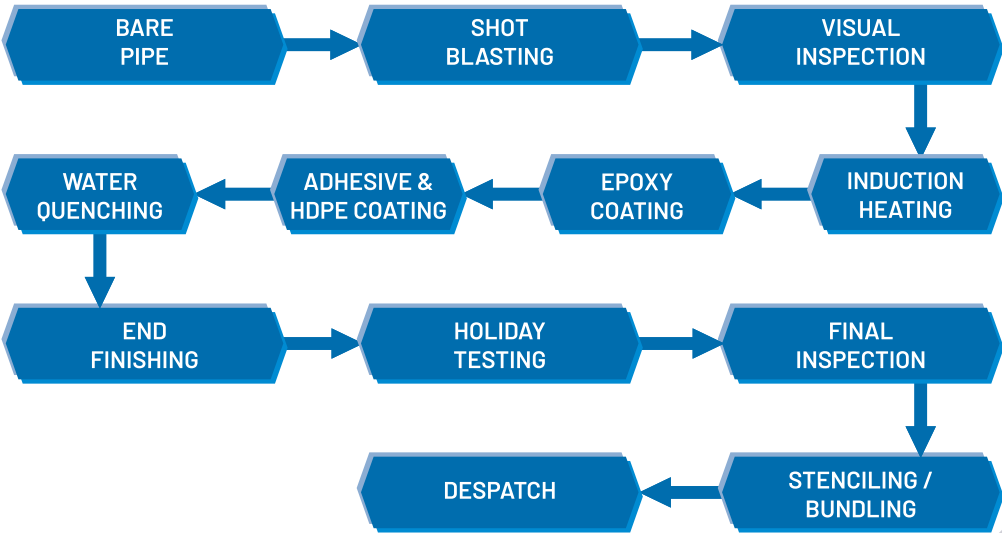
5. OCTG Manufacturing Process

Rolled pipes are heat treated in a Q&T furnace to achieve properties that conform to API grades. In the case of tubing, the ends are upsetted. The pipes are straightened and subjected to EMI and UT and Hydrostatic testing. Subsequently, threads are cut and couplers are power-tightened.

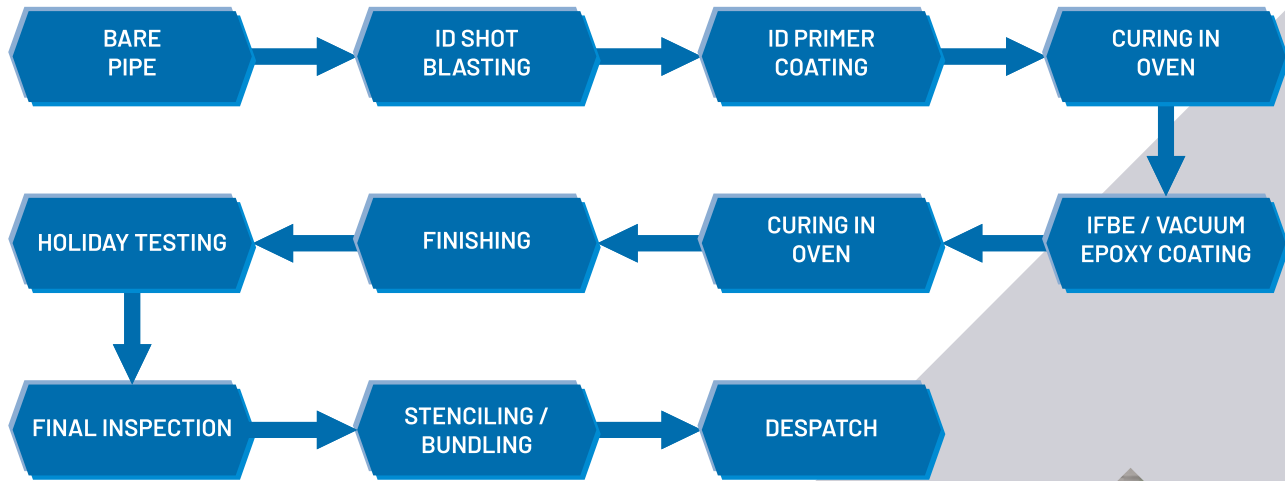


6. Anti-Corrosion Coating Process

The external coating 3LPE, 3LPP and FBE is a multilayer anti-corrosion coating comprising a high-performance fusion bonded epoxy (FBE) layer, followed by a copolymer adhesive and an outer layer of polyethylene. This coating ensures that our tubes are tough and durable, especially in sour conditions.



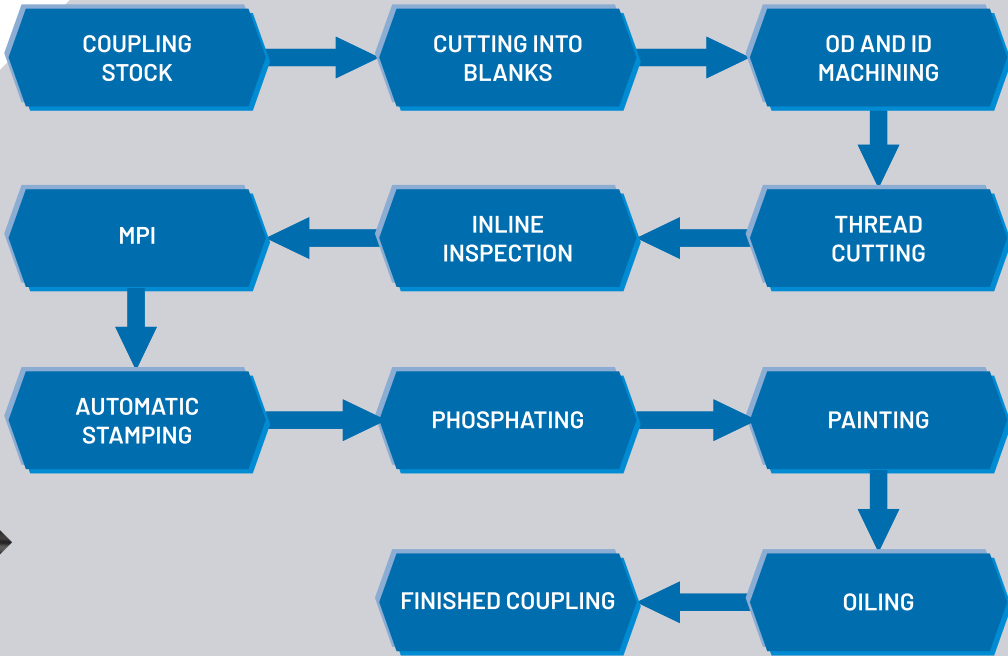
7. Internal Coating



8. Coupling Manufacturing Process

Tubes referred to as coupling stock are cut into blanks by Automated Band Saws. The blanks are transported to the CNC machines, where OD and ID machining and threads are cut to API thread specification with stringent tolerances and meticulous precision. The couplings are subjected to visual inspections under UV light for longitudinal and transverse flaws.

Subsequently, the couplings are phosphated with Manganese Phosphate layer which provides protection against corrosion and improves galling resistance. Finally, the couplings are colour-coded as per the specification and oiled on the inside surface.





NAGOTHANE

PLANT & MANUFACTURING FACILITIES (INFRASTRUCTURE)

1. Hot Finishing

- Rotary Hearth Furnace
- Conical Type Piercing Mill
- Assel Mill
- Walking Beam Furnace
- Stretch Reducing Mill

3. Inspection and Testing Facilities

- Hydrostatic Testing
- Chemical, Mechanical and Metallurgical Testing
- Non-destructive Testing



QUALITY STANDARDS, CERTIFICATIONS AND ACCREDITATIONS

Commitment to Customers, Flexibility in Manufacturing and Total Quality Management are principles that have enabled Jindal SAW Ltd. to deliver value to our customers. Stringent system-based quality control is implemented at each stage of production. Our service standards focus on customer requirements and we strive for the highest user satisfaction.

- ISO 9001-2015, ISO 14001-2015, OHSAS 18001-2007 Certification
- API 5L, 5CT and 5DP Certification
- PED Certification by DNV
- Well known Tube / Pipe Manufacturer under Indian Boiler Regulation
- Committed to deliver quality assurance at par with stringent International standards, both in terms of product quality as well as customer service



CUSTOMER PROFILE

UPSTREAM-OCTG	DOWNSTREAM REFINERY/ PETROCHEMICAL/ LINE PIPE	AUTOMOBILE, AUTO ANCILLARIES, BEARING, HYDRAULIC CYLINDER, CNG CYLINDER	POWER & PROCESSING BOILER & HE, FOOD PROCESSING, PHARMA	TRADERS/ GENERAL ENGINEERING
ONGC	EIL	TATA MOTORS LTD.	BHEL	TUBES INDIA
OIL INDIA	IOCL	BAJAJ LTD.	ISGEC	MANHAR TRADING
CAIRN VEDANTA	L & T - HYDRO CARBON	SUNDRAM FASTENERS LTD.	CHEEMA BOILERS	DUGAR TUBES
RELIANCE INDUSTRIES LTD.	BPCL	WHEELS INDIA	L & T HEAVY ENGINEERING	MOKSHI INDUSTRY
	HPCL - MITTAL	WIPRO	L & T - MHI	SHIB DASS
	MRPL	MAHINDRA & MAHINDRA LTD.	TATA PROJECTS	DRILLTEC METAL TUBES
	CPCL	INTERPUMP HYDRAULICS	TEMA INDIA LTD.	RASI TRADERS
	TECHNIP	SKF INDIA LTD.	GODREJ	SREE VATSA TUBE CORPORATION
	GAIL	SCHAEFFLER INDIA LTD.	THERMAX	MADRAS STEEL
	RELIANCE INDUSTRIES LTD.	NATIONAL ENGINEERING INDUSTRIES LTD.		



KEY MANAGEMENT

The Management at Jindal SAW Ltd. continues to focus and dominate its leadership position in the entire range of the pipes and tubes market made out of iron and steel. We believe in a culture build up with open and fair communication, sense of belongingness for both employee and organisation, integration of individual and organization's goals and high level of integrity. CSR development activities continue to be a focus so that benefits percolate down to every strata of society that we inhabit.

MARKETING ORGANISATION

We are a customer-focused organisation and our endeavour is to meet every expectation of our customer by working on the philosophy of creating value-added products, providing end-to-end solutions, continuous innovation and delivering timely quality products.

CUSTOMER RELATIONSHIP MANAGEMENT

Our dedicated team of Customer Relationship Managers backed by Product/Industry specialists and supported by robust supply chain and commercial teams is relentlessly working towards creating the value.

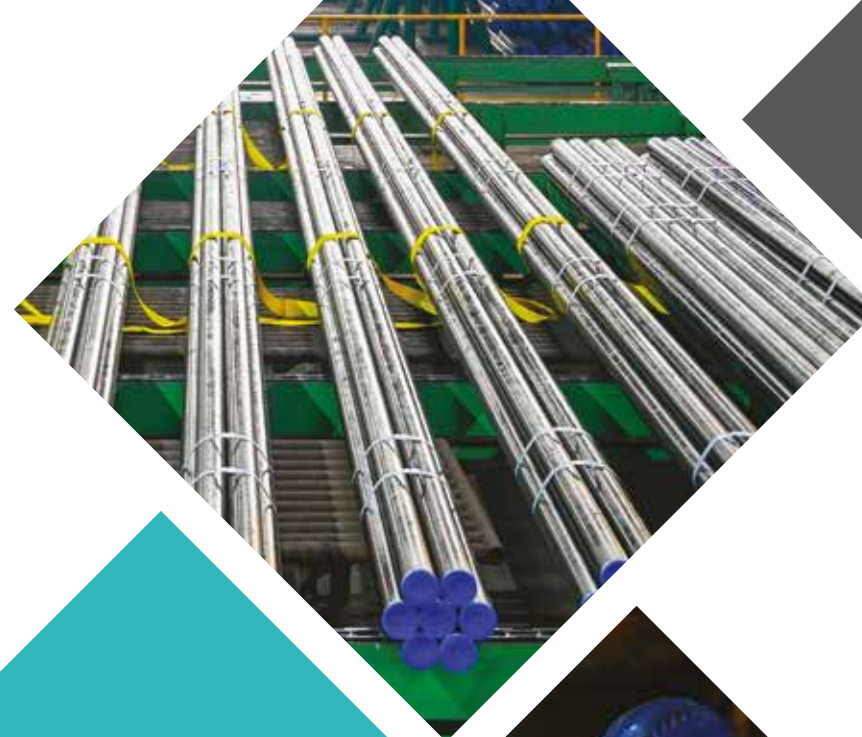
STRATEGIC PARTNERSHIP

Jindal SAW Ltd. is having strategic partnership with Hunting Energy Services to manufacture Premium casing and Tubing with Hunting Seal Lock XD Cal-IV tested Premium connections to Cater to Indian and overseas Market.

Premium casing and Tubing in sizes 2.7/8" to 13.3/8" for carbon steel and 13 Cr grades for Oil and Gas sector are manufactured in Nashik unit in technical collaboration with Hunting Energy Services.

USP

- One of the Largest Pipe Manufacturing Companies: A strong international presence
- Established track record and necessary accreditations
- State-of-the-art manufacturing facilities and testing equipment. Technologically at par with the best mills, internationally.
- Billets sourced from group companies: Advantage of assured delivery as well as high quality due to Vacuum Degassing facilities available at Billet manufacturing Mill
- Skilled and experienced manpower
- Long term relationships forged with leading world class customers





JINDAL SAW LTD.
TOTAL PIPE SOLUTIONS

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Website: www.jindalsaw.com

Manufacturing Facilities:

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Phone: +91-2551-227200

Nagothane

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