



# JINDAL INFINITY REBARS

THAT LAST FOR CENTURIES



SUPERIOR  
CORROSION  
RESISTANCE



LOW LIFECYCLE  
COST



HIGH YIELD  
STRENGTH



SUSTAINABLE  
CHOICE

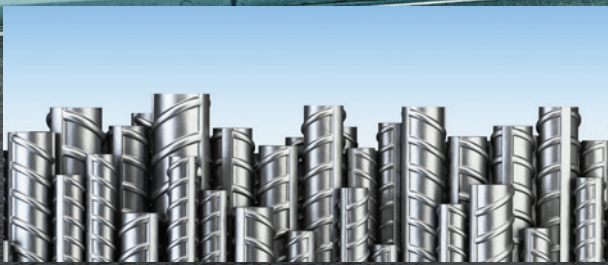






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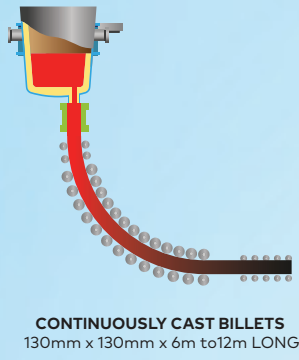


# A LEGACY BUILT ON SAFETY & TRUST

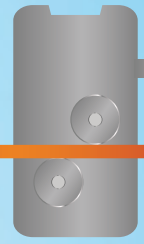
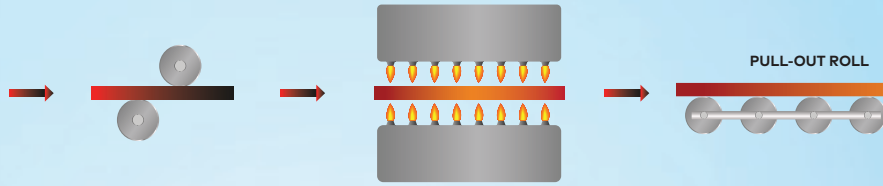
Founded by Shri O.P. Jindal in 1970, Jindal Stainless is one of the largest stainless steel conglomerates in India and ranks amongst the top 10 stainless steel conglomerates in the world. Jindal Stainless Group has an annual crude steel capacity of 3 MTPA and an annual turnover of \$ 4.2 Billion USD (as on March 2023).

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



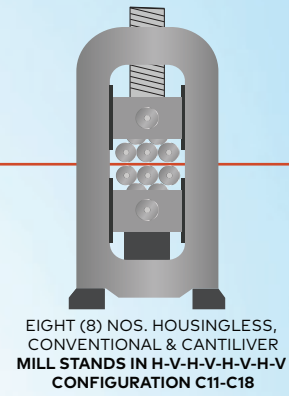
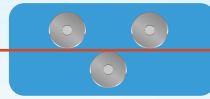


40/45 TPH TOP FIRED PUSHER TYPE REHEATING FURNACE

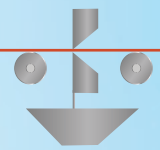


WATER BOX IN BETWEEN MILL STAND C16 & C17

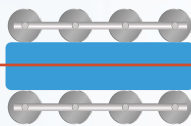
BAR DIVERTER



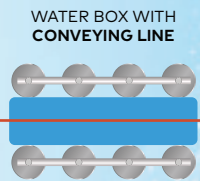
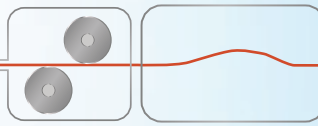
CROP CUM COBBLE SHEAR#2 FOR FRONT & TAIL END CROPPING



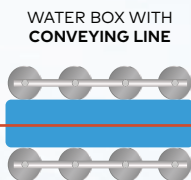
Ø12-Ø32MM SS REBARS IN STRAIGHT LENGTH



PINCH ROLL

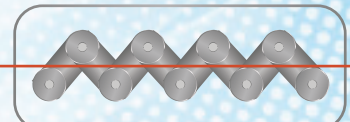
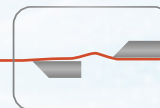


Ø8 - Ø10MM SS REBAR



PINCH ROLL

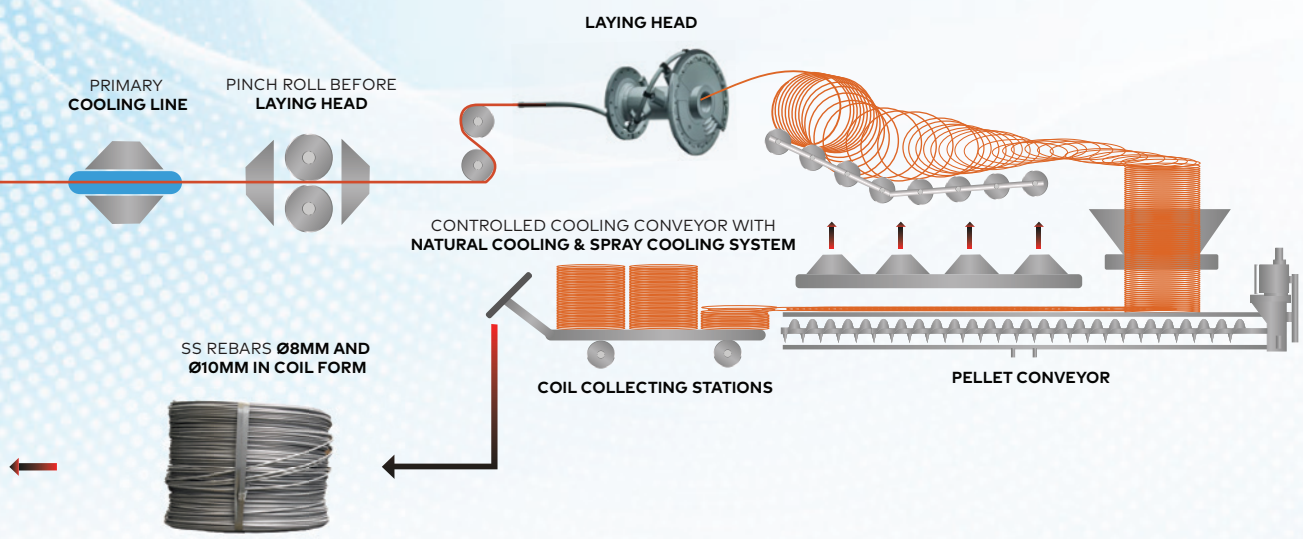
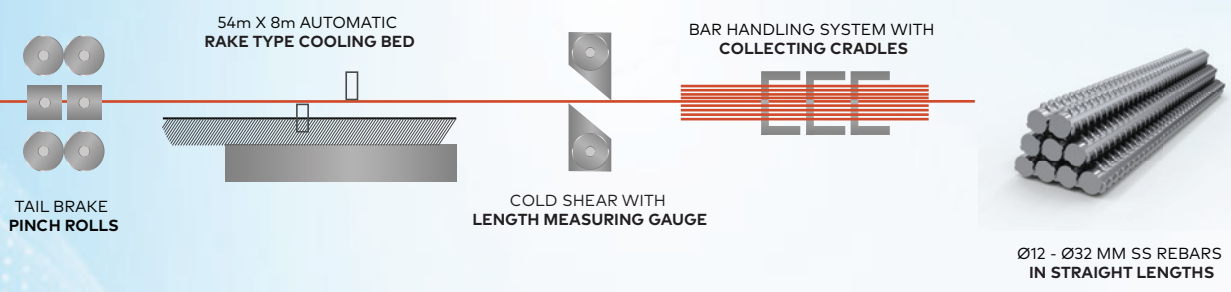
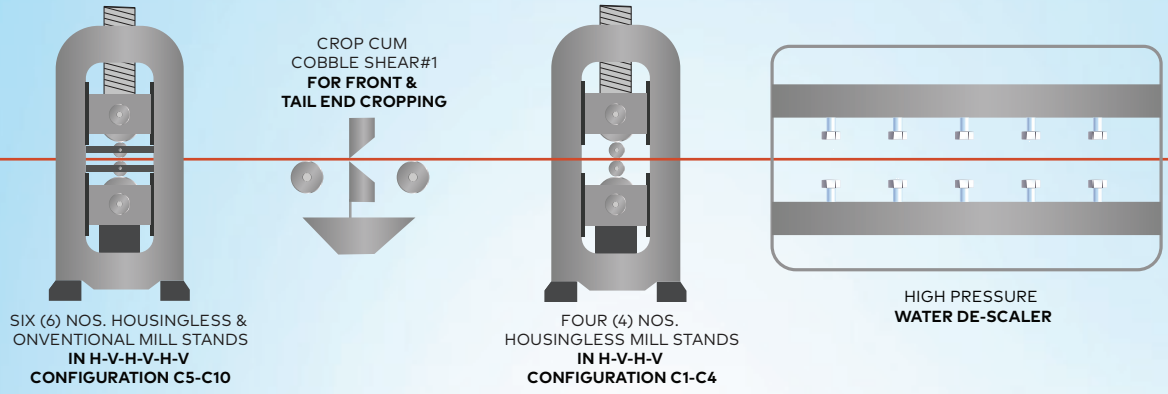
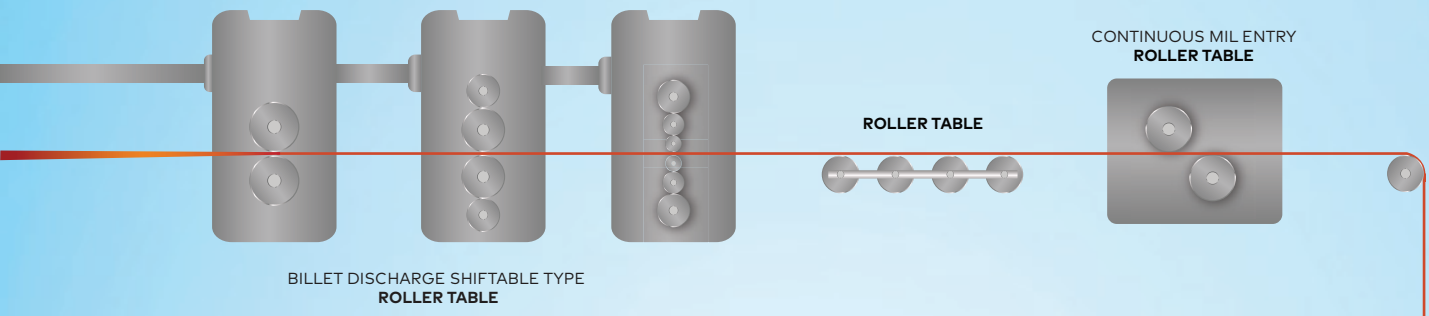
DISC & DRUM SHEAR WITH HORIZONTAL LOOPER



Ø8-Ø10 MM SS REBARS IN STRAIGHT LENGTHS







# PLANT CAPACITY – 1,80,000 TPA

**THE PERFECT BLEND OF  
STRENGTH & DURABILITY TO  
COMPLEMENT PROGRESS**

**INTRODUCING  
JINDAL INFINITY REBARS**

## PRODUCT SPECIFICATIONS -

**Chemical Composition of SS Rebar Grade G (410 L) as per IS 16651:2017:**

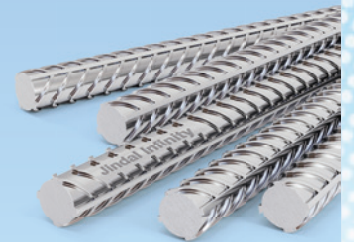
Chemical	C	Ni	Mn	Si	P	S	Cr	N
Min %							11	-
Max %	0.03	0.6	1	1	0.04	0.03	13.5	-

**Mechanical Properties of High Strength Deformed Stainless Steel Bars and Wires as per IS 16651:2017:**

S. No.	Properties	SS 500	SS 550	SS 600	SS 650
1	0.2 percent proof stress (Rp0.2), Min, N/mm <sup>2</sup>	500	550	600	650
2	Percentage elongation after fracture (A5), Min, on gauge length $5.65 \sqrt{A}$ , where A is the cross-sectional area of the test piece	16	14.5	10	10

**Product Offering:**

Diameter (mm)	8 mm to 32 mm
Standard Length	12 mtrs.





# NEED FOR STAINLESS STEEL REBARS

Stainless steel rebars play a pivotal role in modern construction owing to their exceptional corrosion resistance and durability. Unlike conventional carbon steel rebars, stainless steel rebars offer extended service life in structures exposed to corrosive environments such as marine settings, chemical plants, and infrastructure in coastal areas. Their resistance to rust and corrosion helps maintain the structural integrity of buildings and bridges over time, significantly reducing maintenance costs and the need for frequent repairs. These rebars contribute to enhanced safety and reliability in construction, ensuring structures remain robust and stable for longer periods while minimizing environmental impact through their recyclability, making them a sustainable choice for infrastructure development worldwide.

## OTHER ADVANTAGES:

- It is highly resistant to corrosion from chloride ion
- It does not rely on the high alkalinity of concrete for protection
- Concrete cover can be reduced
- Concrete sealant, such as Silane, can be eliminated
- Concrete mix can be simplified to suit concrete design needs, not for rebar protection needs
- It improves durability
- It reduces maintenance and repair
- It can be used selectively for high risk elements cost-effectively
- It will eventually be recycled





# WHAT TYPE OF STAINLESS STEEL CAN BE USED IN THE REINFORCEMENT OF CONCRETE?

There exists a diverse array of stainless steel alloy options for choosing rebars, designed to fulfil specific mechanical design requirements and anticipated environmental corrosiveness. Stainless steels encompass primarily five main groups: Austenitic, Ferritic, Duplex, Martensitic, and Precipitation-hardened steels. The selection of SS REBAR GRADE G Stainless Steel as a preferred material depends on various factors, including its corrosion resistance, expected longevity, and life cycle cost, ensuring it aligns well with the intended application and structural demands.

SS REBAR GRADE- G( 410L ) Confirming to IS 16651:2017 is currently used in various project by different Govt. bodies in India including :

- **INDIAN RAILWAYS**
- **NHAI**
- **PWDs**
- **MMRDA**
- **MCGM**
- **MRIDCL**

SS REBAR GRADE- Confirming to IS 16651:2017 is currently used in various project by different Govt. bodies in India including:

- **Statue of Oneness (Adi Shankaracharya)**
- **RDSO – High Speed Rail Test Track**
- **Pamban Bridge**
- **Dr. Balasaheb Ambedkar Memorial and many more**



Extended Life



Excellent Durability



Exceptional  
Corrosion Resistance



Min. Maintenance  
Cost



Lower Environmental  
Footprint



Excellent Fire  
Resistant



Reduction in Life  
Cycle Cost



# APPLICATIONS – STAINLESS STEEL REINFORCEMENT BARS

## HIGHWAY INFRASTRUCTURE

Stainless steel reinforcement finds application in highway infrastructure where corrosion could lead to early degradation of the road system, potentially causing significant economic consequences for the local community. Utilizing stainless steel allows the builder to essentially complete the construction efficiently, avoid subsequent repairs, and ensure long-term durability. Employing stainless steel reinforcement substantially extends the useful lifespan of the infrastructure, minimizing the need for frequent repairs or replacements.



- BRIDGE STRUCTURE ELEMENTS
- DECK PANELS
- BARRIER WALLS AND CURBS
- SIDEWALKS AND MEDIANS
- DECK JOINT BLOCKOUTS
- ABUTMENTS ROOF SLABS, APPROACH SLABS AND WING WALLS
- BRIDGE PIERS AND PIER CAPS
- BARS PROJECTING FROM PRECAS
- ANCHORING SYSTEMS
- TUNNELS
- ALL OTHER CHLORIDE SPLASH ZONES
- HIGHWAY ELEMENTS
- LOAD TRANSFER DOWELS
- CONCRETE PAVEMENTS



## MARINE INFRASTRUCTURE

Stainless steel reinforcing is used for structures in a marine environment where corrosion could be an acute design challenge. By using stainless steel reinforcing, the useful life of a marine structures is dramatically increased.

- MARINE STRUCTURES
- COASTAL BRIDGES
- PIERS
- WHARVES
- TUNNELS





# OTHER APPLICATIONS

BRIDGES	DAMS	RAILWAY WASHING LINES
SEA WALLS	NUCLEAR WASTE STORAGE TANKS	DOCKYARDS
WASTE WATER TANKS	HIGH RISE BUILDINGS	





# COMPANY NETWORK



-  **MANUFACTURING FACILITIES**
-  **DOMESTIC SALES OFFICES**
-  **SERVICE CENTRES**



Supplier to  
over 32 Sectors



Customized  
Solutions



Faster  
Delivery

## INDIA'S NO.1 STAINLESS STEEL BRAND





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