

**AM/NS**  
**INDIA**  
ArcelorMittal Nippon Steel India

**AM/NS** Maximus  
Heavy Plates

**THINK BIG.**  
**THINK MAXIMUS.**



WHEN YOU  
PARTNER  
WITH THE BEST,  
YOU HAVE THE  
POWER TO GIVE  
YOUR BEST.

Hazira Steel plant, Gujarat, is a well-planned, sophisticated



## About AM/NS India

AM/NS India, a joint venture between ArcelorMittal and Nippon Steel – two of the world's leading steel companies – is an integrated flat carbon steel manufacturer – from iron ore to ready-to-market products. Established in December 2019, the company's manufacturing facilities comprise ironmaking, steelmaking, and downstream facilities spread across India.

A major strategic advantage is our high level of forward and backward integration. AM/NS India is totally integrated – from raw material to finished products – adding value at every stage of the manufacturing process.

The company's goal is to help create smarter, more sustainable steels for India and beyond. To do this, it places safety, innovation, sustainability, and technology at the heart of its manufacturing operations and product development.

AM/NS India offers more than 300 grades of steel, all of which conform to international quality standards, ascribing to being a trusted and reliable provider of steel to customers in India and beyond.



## About Hazira Facility

and environment-friendly facility with a highly integrated and modern complex. With an achievable capacity of 9 Million Tonnes Per Annum (MTPA), the company holds the distinction of owning and operating one of the largest single-location flat steel plants in the world.

The plant comprises a comprehensive infrastructure set up, including power plants, lime and oxygen plants, a township and a captive port that can handle capsized vessels, and is equipped with modern handling equipment. This inclusion makes the complex entirely self-sufficient, eliminating the dependency on external inputs and forms the core of AM/NS India's integrated processes.



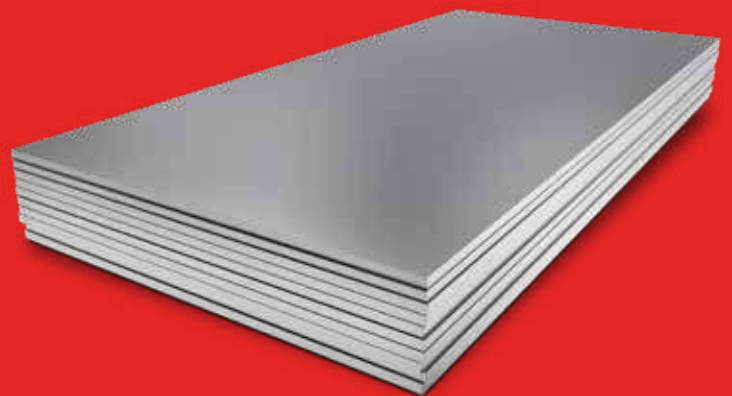


**WHEN YOU THINK BIG,  
YOU HAVE THE POWER  
TO CREATE  
SOMETHING BIG.**



AM/NS Maximus is a range of heavy plates produced by AM/NS India.

With thickness up to 150 mm and width up to 4900 mm, these plates are available in customized lengths with IS 2062 GRADE E250.



## PLANT TECHNOLOGY

FEATURES	CAPACITY	TECHNOLOGY PARTNER	ADVANTAGES
High-Power Reversible Rolling Mill	RSF-10,000 T	SIEMENS-VAI	<ul style="list-style-type: none"> <li>- High shape factor rolling for better properties and lower internal discontinuities for ultra high strength and high toughness plates.</li> </ul>
ADCO (Accelerated Direct cooling ) with Direct Quenching Facility	Water flow rate: 11,000 m <sup>3</sup> /hr	SIEMENS-VAI	<ul style="list-style-type: none"> <li>- Controlled cooling with edge masking facility.</li> <li>- Direct quenching facility for ultra high strength, high toughness and abrasion resistant steel plates.</li> </ul>
Hot Leveler	4000 T	SIEMENS-VAI	<ul style="list-style-type: none"> <li>- High plastification ratio for Low residual stresses.</li> <li>- Excellent Flatness.</li> </ul>
Ultra-sonic Testing		NDT, Germany	<ul style="list-style-type: none"> <li>- Online ultra sonic testing up to 50 mm thick plates.</li> <li>- Offline UT testing for thickness &gt;50-150 mm.</li> </ul>
Heat Treatment Facilities	Normalising Furnace, Quenching and Tempering Furnace	LOI Germany	<ul style="list-style-type: none"> <li>- Roller Hearth Furnace with level II automation for better control of process.</li> <li>- Inert atmosphere in furnace ensures scale free surface and good surface finish.</li> <li>- Normalising, Quenching and Tempering facilities.</li> </ul>
Cold Leveling	3000 T	SIEMENS-VAI	<ul style="list-style-type: none"> <li>- Excellent Flatness Control.</li> </ul>
Finishing Facilities	Shearing up to 50 mm	SIEMENS-VAI	<ul style="list-style-type: none"> <li>- Edge Trimming with Close Dimensional Tolerances.</li> <li>- Flame Cutting Facilities for Plate Thickness &gt; 50 mm.</li> </ul>

## GRADE PROPERTIES

GRADE	EQUIVALENT SPECIFICATION			
	*IS 2062 : 2011	JISG3101: 2015	ASTM A36: 2005	EN10025: 2004
Structural Steel	E250 A, B0, BR	SS400	A36	S275J0

*\*For Retail Segment AMNS shall guarantee as per IS 2062 :2011*

### THICKNESS TOLERANCES

Nominal thickness (mm)	Tolerances on nominal thickness (mm) As per EN 10029/ ASTM A20/ IS 1852	
	Lower (mm)	Upper (mm)
≥ 6 < 8	-0.3	0.3
≥ 8 < 15	-0.4	0.4
≥ 15 < 25	-0.5	0.5
≥ 25 < 40	-0.6	0.6
≥ 40 < 60	-0.8	0.8
≥ 60 < 80	-1.0	1
≥ 80 < 100	-1.2	1.2
≥ 100 < 150	-1.6	1.6

### WIDTH TOLERANCES

Description	Nominal Tolerance, mm
Mill Edge	-0, +60
Trimmed Edge	-0,+30

### MECHANICAL PROPERTIES

Properties	AM/NS
Yield Strength, MPa	250 Min
Tensile Strength, MPa	410 Min
Elongation, GL = 5.65 √S0	23% Min

*AMNS shall provide Impact test value as per IS 2062 :2011 & end user requirements*



## FEATURES & BENEFITS



### **UNIFORM STRENGTH AND FLATNESS**

Uniform performance at component level which in-turn gives good yield.  
Better performance for laser cutting due to its uniform flatness.

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### **GOOD WELDABILITY AND WORKABILITY**

Improved ease of fabrication.

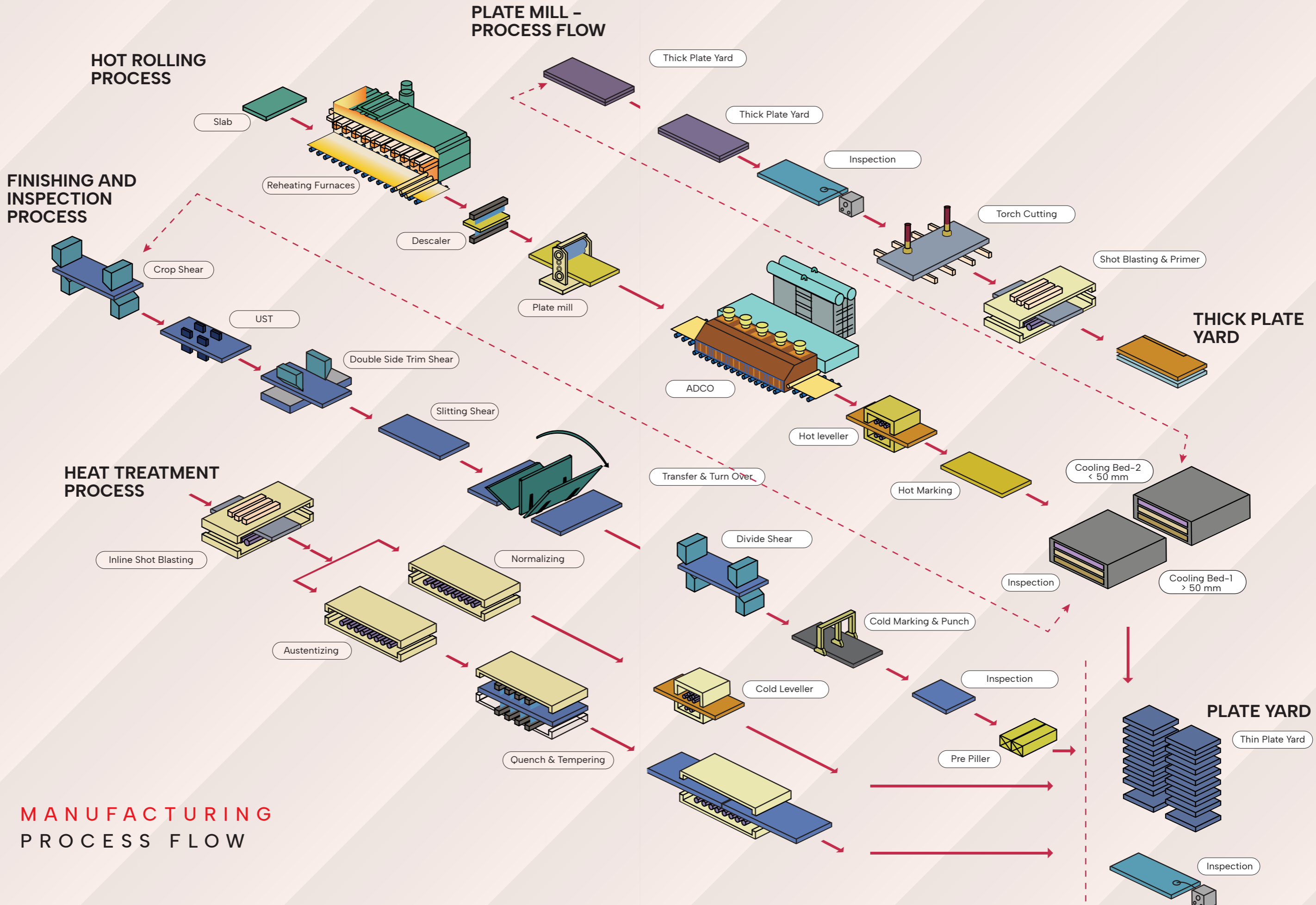
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### **WIDEST PLATES WITH STRINGENT QUALITY CONTROL**

Widest plates gives flexibility to the customer on better nesting which in turn improves yield.

Stringent quality ensures superior product and hence better material performance.



**MANUFACTURING  
PROCESS FLOW**

**HOT ROLLING  
PROCESS**

**FINISHING AND  
INSPECTION  
PROCESS**

**HEAT TREATMENT  
PROCESS**

**PLATE MILL -  
PROCESS FLOW**

**THICK PLATE  
YARD**

**PLATE YARD**

Slab

Reheating Furnaces

Descaler

Plate mill

Crop Shear

UST

Double Side Trim Shear

Slitting Shear

Normalizing

Inline Shot Blasting

Austenitizing

Quench & Tempering

Thick Plate Yard

Thick Plate Yard

Inspection

Torch Cutting

Shot Blasting & Primer

ADCO

Hot leveller

Hot Marking

Cooling Bed-2  
< 50 mm

Cooling Bed-1  
> 50 mm

Inspection

Transfer & Turn Over

Divide Shear

Cold Marking & Punch

Inspection

Pre Piller

Cold Leveller

**Thin Plate Yard**

Inspection



## PRODUCT APPLICATION



General Structures



Airports, Roads and Bridges





Structural Constructions



Pre-Engineering Building





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