

Rolling Mills

Light Bar Mill



Wire Rod Mill



Heavy Bar Mill



Parameter	Light Bar Mill	Wire Rod Mill	Heavy Bar Mill
Mill Type	3 High Roughing + Continuous H-V	Continuous H-V Mill	2 High Reversible BDM + Continuous H-V
RH Furnace	25 ton/hr, Walking Hearth	50 ton/hr, Walking Hearth	90 ton/hr, Walking Beam
Fuel Used	Blast Furnace Gas	Blast Furnace Gas	Dual (BF Gas + Oil Fired)
Strands	13	21 Garret + 10 Block	1 + 8
Cooling Bed	Turn Over Cooling Bed	Stelmor Cooling Bed	Turn Over Cooling Bed, Add. fast & pit cooling facilities
Size Range	Rounds: 20 – 60 mm Dia RCS: 55 – 65 mm & Flats	Block: 5.5 – 15.5 mm Dia Garret: 16 – 32 mm Dia	Rounds: 56 – 200 mm Dia RCS: 63 – 200 mm
Input	Auto Ground Inspected Bloom/Billets		

Our Presence



JAYASWAL NECO INDUSTRIES LIMITED

Major Customers



Ludhiana
Delhi
Faridabad

Raipur
Rajkot
Nagpur
Mumbai
Pune

Bangaluru

Jamshedpur

Chennai

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JAYASWAL NECO INDUSTRIES LIMITED

Great
Place
To
Work.
Certified
2024



www.necoindia.com

Jayaswal Neco Industries Limited – Steel Plant Division (JNIL-SPD), established in 1996, its corporate office in Nagpur. Strategically located in Raipur, Chhattisgarh, JNIL-SPD is one of India’s largest alloy steel plants with an annual capacity of 1 million tons.

Our fully integrated steel plant features:

- Core facilities: Blast Furnace, Pellet Plant, Sinter Plant, Coke Oven, DRI Plant, Captive Mines, Power Plants, Steel Melting Shop (Automation Level 2), Rolling Mills, Heat Treatment, and Bright Bar .
- India’s largest caster size: 340x400 mm with advanced technologies like Tundish (25 MT), Mould-EMS, and AMLC for superior steel cleanliness and soundness.
- NABL-accredited testing facilities (ISO/IEC 17025:2017) equipped with Auto UST, MFLT, SEM-EDS, and Immersion UT for world-class quality assurance.

Product Excellence:

- Narrow chemistry band control for consistent hardenability.
- Fixed-length products minimizing short-length generation.

Rolling Mills:

- Use of Blast Furnace gas for reheating with advanced Walking Hearth/Beam furnaces.
- Online profile gauges for precision dimensional control and decarburization management.
- Use of Tungsten Carbide rings & Combi Rolls to ensure Good Surface Quality.
- Stelmor cooling facilities for 5.5mm -15mm wire rod (Block line).

Special Developments:

- High nitrogen micro-alloy steel grades.
- Creep-resistant grades for boiler applications.

Diverse Applications:

- Serving the Automotive, Engineering, Bearing, Oil & Gas, Railways, and Power sectors.

Approved by major OEMs and supported by a dedicated customer service cell.

Steel Grades:

Alloy Steel, Carbon Steel, Cold Heading Quality Steel, Electrode Steel, Microalloyed Steel, Free Cutting Steel, Spring Steel, Bearing Steel, and more as per SAE/AISI, JIS, EN, BIS, ASTM, IS, and DIN standards.

Products & Sizes:

As Cast Billets/Blooms:

130x130 mm to 340x400 mm.

Wire Rods : 5.5 mm to 32.0 mm.

Round Bars: 20 mm to 200 mm.

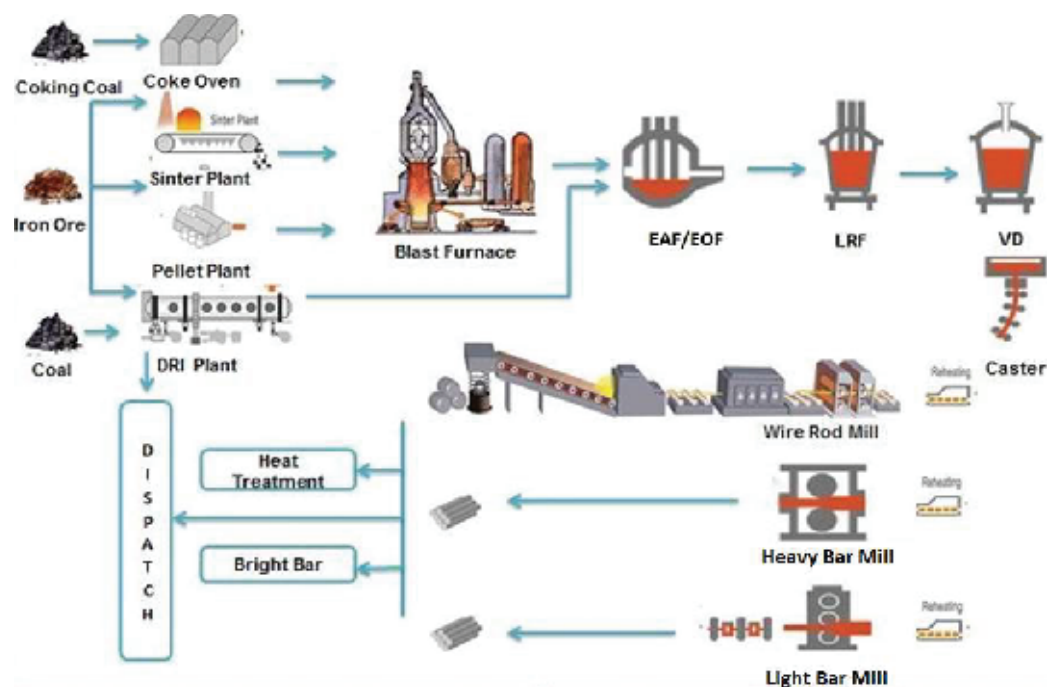
RCS: 55 mm to 200 mm.

Flats: Width 60 mm to 100 mm, Thickness 7 mm to 28 mm.

Bright Bars: 5 mm to 78 mm.

Supply Conditions:

As Cast, Hot Rolled, Soft/Spheroidized Annealed, Normalized (Bars), Bright Bars.



Steel Melt Shops

Feature	Steel Melting Shop-1	Steel Melting Shop-2
Furnace Type	Electric Arc Furnace	Danieli Make Electric Arc Furnace (Level 2)
Heat Size	40 MT	75 MT
Ladle Refining	2 Furnaces, Argon Purging, Narrow Chemistry Control	Argon Purging, Narrow Chemistry Control
Vacuum Degasser	Vacuum < 1.0 Torr, Holding: 10–25 min, Gas Control	Vacuum < 0.5/1.0 Torr, Holding: 10–25 min, Gas Control
CCM	3 Strands, Close Casting	4 Strands, Close Casting
Tundish Size	8 MT	25 MT (Largest in India)
Caster Radius	6/11 meters	Multi Radius: 12/19/34 meters, 24.1 meters (Bloom Caster)
Features	EMS, AMLC, Non-Sinusoidal Oscillation	EMS, AMLC
Casting Sizes (mm x mm)	130x130, 160x160, 180x180	160x160, 250x250, 340x400, 140x350

- Iron Ore Mines : **4.00 MTPA**
Coke Oven: **0.20 MTPA**
Sinter Plant: **0.80 MTPA**
Pellet Plant: **1.50 MTPA**
DRI Plant: **0.27 MTPA**
Blast Furnace: **0.75 MTPA**
Steel Melt Shop: **1.06 MTPA**
Wire Rod Mill: **0.30 MTPA**
Heavy Bar Mill: **0.55 MTPA**
Light Bar Mill: **0.15 MTPA**
Heat Treatment: **0.033 MTPA**
Bright Bar: **0.053 MTPA**

Key Strengths of Testing facilities

Optical Emission Spectrometer – ARL 3460

Wave Length Dispersive XRF ARL 9900 – XRF-84 Elements Testing machines

LECO CS 744 Leco Carbon & Sulphur Analyser

LECO ONH – 836 Leco (O,N,H) Gas analyzer

Nikon Microscope with Clemax Image Analyser

Micro Hardness Tester

Tensile Testing Machine

Hardness Tester

X-Met, Mobile Spectro for Grade confirmation

IMMERSION ULTRASONIC TESTING MACHINE

Equipment Details

- Make: Olympus (Bluestar), Canada
- Type: Bench Type
- Capacity: 800 mm Length
- Month of Commissioning: Feb-2023
- Key Function: Inspection of cleanliness levels (macro to industrial) in steel

Salient Features

- Superior quality for inspection
- Easy to use, easy to maintain
- Easy to operate, easy to maintain
- Easy to maintain, easy to operate
- Easy to maintain, easy to operate

Quality Highlights

- Accurate, reliable and 100% volume of steel
- 100% compliance with ISO 9001:2015
- Application

Scanning Electron Microscope with EDS

Equipment Details

- Make: ZEISS, Germany
- Type: Bench Type
- Capacity: 800 mm Length
- Month of Commissioning: Feb-2023
- Key Function: Inspection of cleanliness levels (macro to industrial) in steel

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NDT Facilities

AUTO UT
Make – Olympus, Canada
Diameter Size: 20 to 120 mm

MFLT
Make: Pruftechnik, Germany
Diameter Size: 20 to 140 mm

Eddy Current
Make: Dr.Foersters, Germany
Diameter Size: 5 to 35 mm

Bar Coding System for Identification & traceability

Auto Billet/Bloom Grinding Machine

Profile Gauge for Online dimension monitoring

- Brinell Hardness Tester
- Rockwell Hardness Tester
- Jominy Testing Facilities
- Impact Testing (with Sub Zero Temperature)
- Profile Projector
- Portable Ultrasonic Flaw Detectors
- Red-Check Meter (Portable Radioactivity checking m/c)
- Magnetic Particle Inspections Machines