

One of India's leading
integrated manufacturer of
**Alloy & Stainless Steel
Bars, Pipes and Tubes**



We at **Welspun Specialty Solutions Limited (WSSL)** are one of India's leading integrated manufacturer of Alloy, Stainless Steel Bars, Pipes & Tubes right from steel-making to the finished products. Our modern manufacturing facilities includes a fully integrated steel melting shop, rolling facility and state-of-the-art seamless pipes plant.

We have a Steel-making capacity of -150,000 MTPA and Stainless Steel Seamless Pipe & Tube manufacturing capacity of -18,000 tons per annum.

Our precision rolling mill downstream has a capacity of 125,000 MTPA catering to a wide size-range of 45 mm to 300 mm Rounds and 55 to 350 mm Round Corner Squares. We offer bars in Hot Rolled, Heat Treated and Peeled & Polished conditions for all critical applications.

Our NABL accredited testing facility meets the most stringent testing requirements for varied applications in Oil & Gas, Energy, Automotive, Engineering, Defense, Nuclear Power, Railways and other sectors.

CAPABILITIES

MANUFACTURING FACILITY



STEEL MAKING

Steel Melting Shop

- 35 MT Electric Arc Furnace
- 25 MT Electric Furnace
- Ladle Refining Furnace
- Vacuum Degasser
- Vacuum Oxygen Decarburizer
- Argon Oxygen Decarburizer
- Continuous Casting (with AMLC and EMS)
- Ingot Casting

Bright Bar

- Peeling and Reeling Machine
- Polishing Machine
- Centerless Grinding

Rolling Mill

- 2-Hi Reversible Blooming Mill (750mm)
- 3-Hi Intermediate Mill (590mm)
- 2-Hi Finishing Mill

Heat Treatment Shop

- 35 MT Gas Fired Bogie Hearth Furnace
- 2 x 15 MT Electrical Furnaces
- Annealing and Spherodized Annealing
- Quenched and Tempered

SS SEAMLESS PIPES & TUBES

- Billet Preparation facility with Double Spindle DHDM
- Vertical Extrusion Press (Scloman, Germany) - 2500T capacity
- Cold Pilger mills - German make mills upto 5.5" size - 8 Nos.
- Automated Draw Benches upto 75 T capacity
- Solution Annealing Furnace - 2 Nos.
- Bright Annealing Furnace from Mahler, Germany
- Straightening machines
- Cutting machines
- State of art Pickling / Passivation facility
- U-bend Tubes facility -12.7 mm to 50.8 mm OD
- Tube Polishing machine
- Pipe End Beveling machine etc.

TESTING FACILITY

- ARL - 3460 Spectrometers (29 & 33 Channels)
- LECO H2, O2, N2 Analyser & LECO C-S Analyser
- 100T Universal Testing Machine - FIE Make
- Impact Testing Machine (0-300J) - FIE Make
- Metallurgical Microscope (Up to 1500X) with image projection facilities - SEIWA Make
- Rockwell Hardness Tester
- Jominy Testing Apparatus
- Mico RAD Radiation Survey
- Meter-Pulsecho systems
- Wet Analysis Lab-For checking RM like DRI, Fluxes, Carburizers, Ferroalloys etc.
- 8 Channel Slickers Auto UT Machine - 3 Nos
- Portable Hydro Test Facility upto 750 Bar
- PMI test
- Flaring test
- Flattening test
- Drift Expanding test
- Ring Expanding test
- IGC test (Pr. A,E & C)
- Automatic/ Manual Ultrasonic test
- Eddy Current test
- Hydrostatic test
- Air Leak test
- Boroscope test
- Radioactivity test



ALLOY, STAINLESS & SPECIAL STEEL



GRADES

Stainless Steel

Ferritic Stainless Steel

409 (1.4512), 430/430L (1.4016), 430F (1.4104), 430Ti (1.4510)

Martensitic Stainless Steel

405 (1.4002), 403, 410 (1.4006), 410L (1.4003), 414, 416 (1.4005), 420 (1.4021), 420B (1.4028), 420C (1.4034), 431 (1.4057), 440B (1.4112), 13Cr

Austenitic Stainless Steel

303 (1.4305), 304/304L (1.4301/1.4307), 304H, Sup 304, 321/321H (1.4541), 316/316L

(1.4401/1.4404), 316H, 316Ti (1.4571), 317/317L (1.4435), 347/347H (1.4550), 309/309S (1.4833/1.4950), 310/310S (1.4845), XM-19

Precipitation Hardening, Duplex & Super Duplex Stainless Steel

17-4PH /630 (1.4542), 15-5PH, 1.4418, F6NM, F-51 / S31803, F-60 / S32205 (1.4462), F-53 / S32750, F-55 / S32760 (1.4501)

Ni Alloy Grades

UNS N08800, UNS N08810, UNS N08825, 904L (1.4539), 6Mo, S31050 (310 MoLN)

FORMS

Bright Bars

Peeled & Polished Bars (mm Dia)
45-300

Dimensional Tolerances as per
h9, h10, h11, k11, k13
and EN 10060

Rolled Products

Round Bars (mm Dia)
48 - 308

Round Corner Squares (mm Side)
55 - 350

Dimensional Tolerances are as per
IS 3739 1987

Cast Products

Cast Bloom

Square - 150 x 150 mm

Rectangle-280x350mm, 375 x 400 mm

Octagon - 198, 232, 262, 308 mm (Crest to Crest)

Cast Ingot

Square - 2 Mt, 3 Mt

Polygonal - 6 Mt, 9 Mt, 14 Mt, 17 Mt, 30 Mt

Round - 400 mm, 600 mm, 700 mm

Value Added Products

Heat Treated Product

Annealed
Quenched and Tempered as QT 700 / 800 / 850 & 900
Spheroidised Annealed
Solution Annealed
Normalized
Normalized & Tempered

STAINLESS & NI-ALLOY PIPES & TUBES



Steel Grades

- Ferritic Stainless Steel
- Martensitic Stainless Steel
- Nickel Alloy/ Super Alloy
- Austenitic Stainless Steel
- Precipitation Hardening, Duplex & Super Duplex Stainless Steel

Product Range

Sr. No.	Parameter	Hot Finished- Hollow		Cold Finished (Pipe)		Cold Finished (Tube)	
		Min	Max	Min	Max	Min	Max
1	OD (ISO/EN size)	42.16 mm	168.30	10.30 mm	168.30	3.0 mm	114.30 mm
2	OD (ANSI pipe)	1.25" NB	6.0" NB	1/8" NB	6.0" NB	-	-
3	WT (ISO/EN size)	3.56 mm	13.49 mm	1.24 mm	10.97 mm	0.50 mm	5.54 mm
4	WT (ANSI size)	Sch 40	Sch 160	Sch 10	Sch XX	-	-
5	Length	-	12.0 m	-	30 m*	-	30 m*

* for U Bend Tubes

U Bend Tubes

Construction	Size	Min.	Max.	Standard
Seamless	OD (mm)	12.7	50.8	DIN 28180 / DIN 17456 / A 688
	Thickness (mm)	1.0	4.0	
	Leg Length (Mtr.)	1.0	14.0	
	Radius (mm)	1.5 D	1200	

UNIQUE FEATURES



- Integrated producer from Steel Making to Tubes
- Vertical type extrusion press (Scloman) to ensure better Concentricity and superior wall tolerances
- State of the Art Cold Pilger Mills up to 5.5"
- Robust Large Dia draw benches up to 75 T capacity
- Speed To Market - In-house steel making facility

KEY MARKET SECTORS

- Aerospace
- Consumer Goods
- Defense
- Dairy
- Energy and Power
- Engineering
- Fertilizer
- Machine Building
- Nuclear Power
- Oil & Gas
- Pharmaceutical
- Petrochemical
- Railways
- Refinery
- Ship Building/Marine
- Waste Incineration



CERTIFICATES



Scan the QR code to view all the certificates

Welspun^W WORLD

Welspun Group is one of India's fastest growing global conglomerates with presence across multiple business verticals - Home Textiles, Line Pipes, Infrastructure, Oil & Gas, Steel, Advanced Textiles, Retail, Warehousing and Flooring Solutions. In last three decades, Welspun has become an epitome of constant growth and empowerment. Behind its steady rise to prominence, lies a story of vision, foresight, planning and technological excellence. Along with a deep penchant for operational excellence, the group has been continuously following global ESG practices as a responsible conglomerate

- **Global leader in Home Textiles**
- Amongst the **top 3 Line Pipe** companies in the world
- One of India's **fastest growing Infrastructure** company
- Presence in over **50** countries
- Over **26,000+** employees
- Manufacturing facilities in **India, USA and Saudi Arabia**



Welspun^W SPECIALTY SOLUTIONS
Alloy & Stainless | Bars & Tubes

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