



BENCHMARK
STEEL INDUSTRIES



BENCHMARK STEEL INDUSTRIES
THE SEAL OF TRUST



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About us

Benchmark Steel stands as a prominent stainless steel manufacturing company, committed to supplying top-tier steel products and comprehensive solutions to global industries. Our strong emphasis on innovation, efficiency, and client satisfaction has solidified our position as a dependable partner in the steel sector.

Leveraging extensive experience, Benchmark steel possesses profound expertise across all aspects of steel manufacturing. Our skilled team of engineers, technicians, and industry professionals stay well-versed in cutting-edge technologies, industry standards, and optimal approaches. We consistently enhance our knowledge to lead in the dynamic steel industry.

When it comes to stainless steel manufacturing in Gujarat, India, Benchmark steel is a name that stands tall. Our commitment to excellence, advanced facilities, and a team of dedicated experts makes us a reliable and dependable choice for businesses seeking top-quality stainless steel products and solutions.



STEEL MELTING SHOP (SMS)

Our state-of-the-art Steel Melting Shop is equipped with advanced furnaces and refining technologies to produce high-quality stainless steel with precise control over composition, purity, and metallurgical properties.



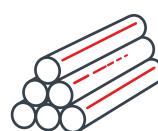
ROLLING MILL

High-precision rolling mill operations designed to produce stainless steel products with superior dimensional accuracy and surface finish, ensuring consistency, strength, and durability across diverse industrial applications.



BRIGHT BARS

Production and distribution of premium-grade bright bars, ensuring exceptional surface finish, precision, and uniformity for demanding engineering and manufacturing applications.



TUBES & PIPES

Manufacturing and supply of premium stainless steel tubes and pipes with excellent corrosion resistance, strength, and reliability for industries such as construction, oil & gas, automotive, and infrastructure.

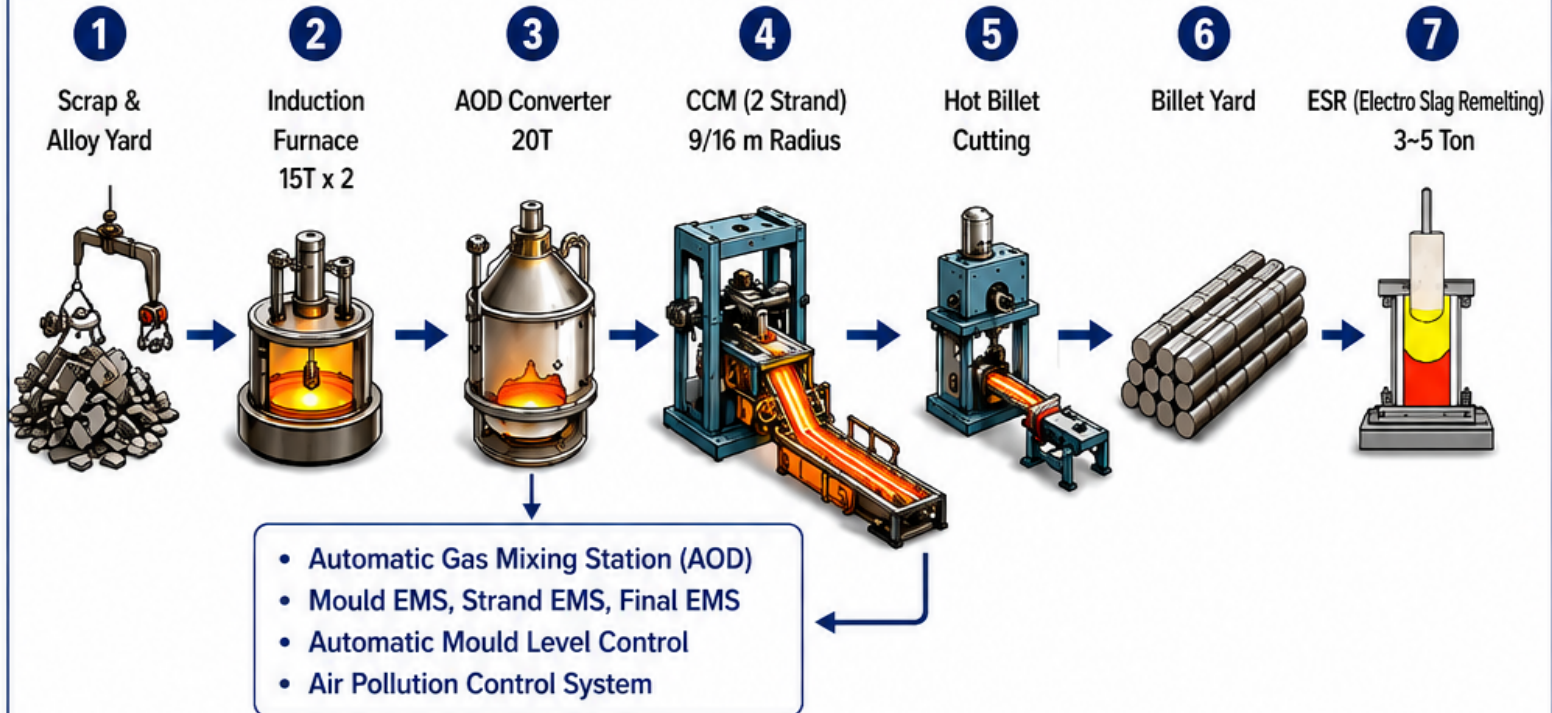
A FOUNDATION BUILT FOR EXCELLENCE

600,000+ sq. ft. of Advanced Stainless Steel Manufacturing

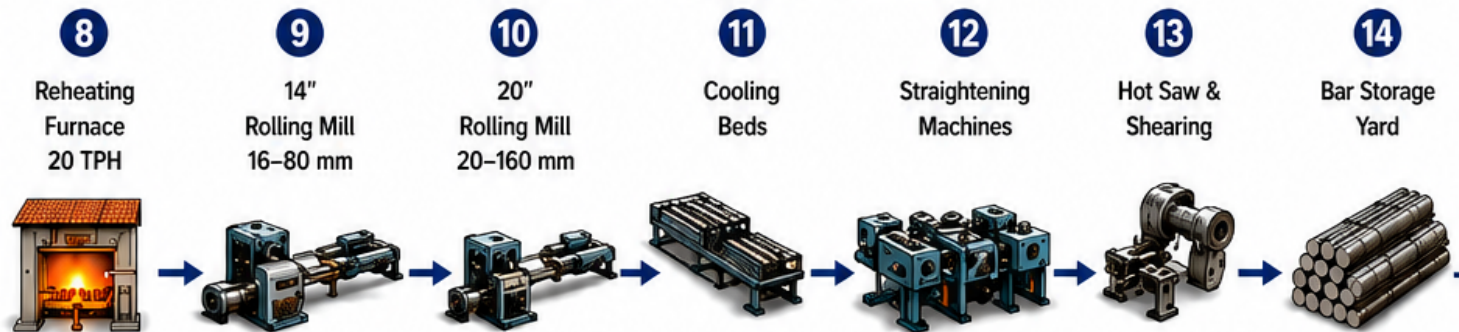
100,000 TPA STAINLESS STEEL BILLET / BAR PLANT

ROUTE: IF → AOD → CCM → ESR → ROLLING → BRIGHT BAR FINISHING

PROCESS FLOW (EQUIPMENT)



ROLLING & FINISHING LINE



BRIGHT BAR / FINISHING LINE



INTEGRATED
MANUFACTURING



ADVANCED
TECHNOLOGY



PREMIUM
QUALITY



RELIABLE
SUPPORT



TIMELY
DELIVERY

Steel And Stainless

STEEL BARS

Extensive range catering to diverse industrial applications. Choose from premium selections known for quality, resilience, and unwavering dependability.



OUR PRODUCT



We Are Expert



Best Services



Best Teams

Steel Melting Shop (SMS)

Our stainless steel melt shop encompasses Induction Furnaces, AOD Converters with computerised Intelligent Refining System and continuous Billet / Bloom casters.

Process Route

- Induction Melting
- AOD Refining
- Continuous / Ingot Casting

Grades

- **Austenitic** : 201, 202, 204Cu, 301, 302, 302HQ, 303, 304, 304L, 304LS, 304H, 304HC, 304L Cu, 310, 310S, 314, 316, 316L, 316L Cu, 316H, 316Ti, 317L, 321, 347
- **Ferritic** : 430, 430F, 434
- **Martensitic** : 403, 410, 416, 420A, 420B, 420C, 431, 440C
- **Austenitic** : ferritic (duplex): F51, F60, F68
- **Electrode** : 304LER, ER307, ER307G7, ER 308L, 308 LER, ER 308LSi, ER 309, ER 309LSi, ER 310, 316LER, 316LSi, ER 347, ER 430, ER 420

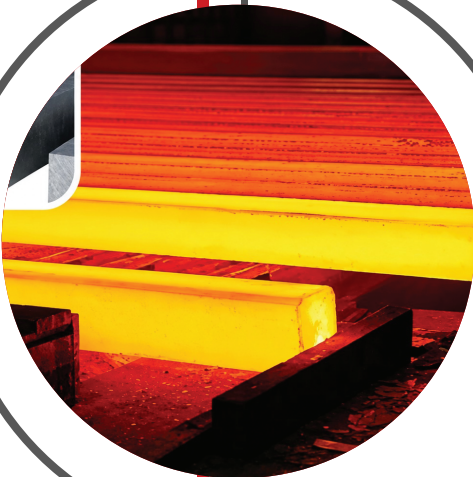
Products

Square Billet: 100 mm, 120 mm, 140 mm, 160 mm, 170 mm, 200 mm, 250 mm and 300 mm

Round Billet: 200 mm and 300 mm

Ingot: 13 inches × 17 inches, 16 inches × 20 inches and Polygonal Ingot of 7 Tons, 9 Tons and 12 Tons

Our Melting Capacity: 100000 tons per annum



Steel Bars : Round Bars



Round Bars

Industries holds a prominent position as a premier manufacturer of stainless steel bright round bars in India. Our commitment to quality manufacturing processes has contributed to our reputation as leading exporters of top-tier stainless steel bright round bars within India. Our product range encompasses various grades, including stainless steel 201, 202, 204CU, 302, 302HQ, 303EHS, 304, 304HC, 304L, 309, 310, 310S, 316, 316L, 316Ti, 321, 17-4PH, 15-5PH, and the 400 Series.

Grades:-

ASTM: 201, 202, 301, 303, 304, 304H, 304/304L, 316, 316H, 316/316L, 309, 309S, 310, 310S, 316Ti, 317, 317L, 347, 321, 321H, 410, 416, 420, 430, 430F, 431, 630, 17-4PH, F51, F60

DIN/EN: WNR1.4301, WNR1.4305, WNR1.4306, WNR1.4307, WNR1.4401, WNR1.4404, WNR1.4571, WNR1.4541, WNR1.4828, WNR1.4841, WNR1.4845, WNR1.4449, WNR1.4438, WNR1.4310, WNR1.4550, WNR1.4541, WNR1.4878, WNR1.4006, WNR1.4005, WNR1.4021, WNR1.4028, WNR1.4016, WNR1.4104, WNR1.4105, WNR1.4057, WNR1.4542, WNR1.4462

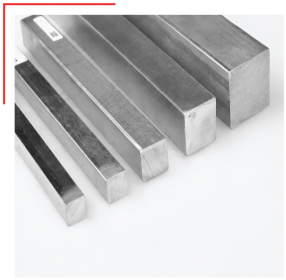
Product Range & Size:-

 Size Range	5mm - 115mm (3/16 inch - 4-1/2 inch)
 Size Tolerance	h8, h9, h10, h11, k12, k13, A-484, EN-10060, DIN-1013, etc.
 Length	2 meters - 8 meters (8 feet to 26 feet)
 Chamfering	Available in 30, 35 & 60 degree through fully automatic both-end chamfering machine
 Crack Test	Magnetic Particle Inspection (MPI)
 Ultrasonic Test	100% tested though digital ultrasonic flaw detector, as per ASTM A-388, EN 1030 8 (class 1 to 4), API 6A/ISO 10423:2003-PSL 3, SEP 1920:1984 (class A, B, C) MIL STD 2154
 Length Tolerance	Available in special cut to length bars in tolerance - 0/+10mm (-0 +0.5inch)
 Straightness	Up to 0.25 mm / meter TIR (0.0015 inch / feet)
 Surface Finish	Centerless Ground & Belt Polished up to Ra value 0.2 um (12 RMS) & 240 - 320 Grit Polished
 Heat Treatment	Annealed, Solution Annealed, Quenched & Tempered (QT), Double Ageing/ Double Tempering

Supply Condition

Annealed	Strain Hardened	Centre less Ground	Centre less Ground & Polished
Cold Drawn Polished	Peeled Bars	Peeled and Polished Bars	QT 700, QT 800, QT 850, QT 900
Forged and Rough Turned	Buffed (Mirror Finish)	100% Ultrasonically Tested	Chamfered
Hardened and Tempered	PSQ	Smooth Turned	

Steel Bars : Hex Bars | Square Bars



Hex Bars

Benchmark Steel Industries stands out as a significant frontrunner in the manufacturing and export of stainless steel bright hex bars. These bright hex bars find their primary application in the production of nuts, hex bolts, valves, hose ends, and more. Our commitment to quality is evident in the exceptional standards of our stainless steel bright hex bars, a result of utilizing top-notch raw materials in our advanced manufacturing procedures. These hex bars are available in lengths ranging from 3 to 6 meters or can be tailored to meet specific customer demands. Our offerings ensure compliance with international quality benchmarks, reinforcing our dedication to excellence.

Grades:-

ASTM: 201, 202, 301, 303, 304, 304H, 304/304L, 316, 316H, 316/316L, 309, 309S, 310, 310S, 316Ti, 317, 317L, 347, 321, 321H, 410, 416, 420, 430, 430F, 431, 630, 17-4PH, F51, F60

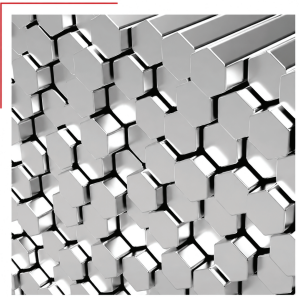
DIN/EN: WNR1.4301, WNR1.4305, WNR1.4306, WNR1.4307, WNR1.4401, WNR1.4404, WNR1.4571, WNR1.4541, WNR1.4828, WNR1.4841, WNR1.4845, WNR1.4449, WNR1.4438, WNR1.4310, WNR1.4550, WNR1.4541, WNR1.4878, WNR1.4006, WNR1.4005, WNR1.4021, WNR1.4028, WNR1.4016, WNR1.4104, WNR1.4105, WNR1.4057, WNR1.4542, WNR1.4462

Product Range & Size:-

 Size Range	14 mm – 52 mm (9/16 inches – 2-1/16 inches)
 Size Tolerance	h11
 Length	2 meters – 6 meters
 Chamfering	Available in 30, 35 & 60 degree through fully automatic both-end chamfering machine
 Ultrasonic Test	100% tested through digital ultrasonic flaw detector, as per ASTM A-388, EN 10308 (class 1 to 4), API 6A/ISO 10423:2003-PSL 3, SEP 1920:1984, MIL STD 2154
 Length Tolerance	Available in special cut to length bars in tolerance – 0/+10mm (-0 +0.5inch)

Testing Facilities:

- Tensile testing machine
- Impact testing machine
- Hardness testing machine
- Microscope with image analyzer and micro photo facilities
- Ultrasonic testing machine with continuous bar feeling facility
- Precision digital laser micrometer
- Eddy current tester
- Surface roughness tester
- IGC test facilities
- Radiation servo meter



Square Bars

Benchmark Steel Industries is a manufacturer and exporter of diverse-grade stainless steel bright square bars. With a wealth of experience, we have a strong track record in exporting our stainless steel bright square bars and other related products. Our company offers stainless steel bright square bars with a cold-drawn and polished finish, enabling us to tailor the square bar's length according to the specific preferences of our clients.

Grades:-

ASTM: 201, 202, 301, 303, 304, 304H, 304/304L, 316, 316H, 316/316L, 309, 309S, 310, 310S, 316Ti, 317, 317L, 347, 321, 321H, 410, 416, 420, 430, 430F, 431, 630, 17-4PH, F51, F60

DIN/EN: WNR1.4301, WNR1.4305, WNR1.4306, WNR1.4307, WNR1.4401, WNR1.4404, WNR1.4571, WNR1.4541, WNR1.4828, WNR1.4841, WNR1.4845, WNR1.4449, WNR1.4438, WNR1.4310, WNR1.4550, WNR1.4541, WNR1.4878, WNR1.4006, WNR1.4005, WNR1.4021, WNR1.4028, WNR1.4016, WNR1.4104, WNR1.4105, WNR1.4057, WNR1.4542, WNR1.4462

Product Range & Size:-

 Size Range	12.70 mm – 55 mm (1/2 inch – 2-1/6 inch)
 Size Tolerance	h11
 Length	2 meters – 6 meters
 Chamfering	Available in 30, 45 & 60 degree through fully automatic both-end chamfering machine
 Ultrasonic Test	00% tested through digital ultrasonic flaw detector, as per ASTM A-388, EN 10308 (class 1 to 4), API 6A/ISO 10423:2003-PSL 3, SEP 1920:1984, MIL STD 2154
 Length Tolerance	Available in special cut to length bars in tolerance – 0/+10mm (-0 +0.5inch)
 Surface Finish	Cold drawn condition and Belt polished condition

Testing Facilities:

- Computerised tensile testing machine (capacity range 20kg to 40 ton)
- Bend testing, wrap testing, torsion testing machine
- Hardness testing machine
- Microscope with image analyser with micro photo facilities
- IGC test facilities
- Cold upset test facility
- PMI tester (Niton gun X-ray analyser)
- Spectro and Leco analysers for chemical composition-optical emission spectro and gas analysers
- Radioactive contamination testing

Flat Steel Bars :



Flats

HRAP Flat Bars are manufactured through hot rolling followed by solution annealing and pickling, delivering strong corrosion resistance with a clean, consistent surface.

We supply stainless steel flat bars in grades such as 304 and 316, along with other austenitic variants, with strong mechanical performance and reliable finish quality.

Applications

- Chemical processing
- Architectural and structural applications
- Pharmaceuticals and kitchen equipment
- Fuel gas systems and seawater installations
- Fire and blast-resistant structures
- Heat exchangers, bridges and cargo tanks

Supply Conditions

- **Length:** Upto 6.4 meters
- **Heat treatment process:** Hot rolled, Solution Annealed and Pickled (HRAP)
- **Tolerance:** ASTM A484, EN 10058
- **Specifications:** as per EN, DIN, JIS, ASTM, BS, ASME, etc.

SIZE IN MM		SIZE IN INCHES	
Width (MM)	Thickness (MM)	Width (Inches)	Thickness (Inches)
20	15, 16	1"	3/16", 1/4", 5/16", 2/5", 15/32", 3/5", 4/5"
21	17.5	1-1/4"	3/8", 1/2", 3/4"
22	11, 13, 16, 17, 18, 19.5	1-1/2"	3/16", 1/4", 3/8", 1/2", 3/4", 1"
23.5	14.5	2"	3/16", 1/4", 3/8", 1/2", 3/4", 1", 1-3/16", 1-4/7"
25	5, 6, 8, 10, 12, 12.7, 15, 20	2-1/2"	7/16", 3/5", 3/4", 1", 1-3/16", 1-4/7"
26	11, 13, 16, 21	3"	3/16", 5/16", 3/8", 1/2", 3/4", 1", 1-3/16", 1-4/7"
28.5	14	4"	1/4", 5/16", 3/8", 1/2", 3/4", 1", 1-3/16", 1-4/7"
30	5, 6, 8, 10, 12, 15, 16, 20	6"	5/16", 3/8", 1/2", 5/8", 3/4"
32	9, 11, 13, 15, 16, 20, 21	-	-
35	6, 8, 10, 15, 20	-	-
36	23, 27.5	-	-
38	23.5	-	-
39.5	29	-	-
40	5, 6, 8, 10, 12, 15, 16, 20, 25, 30	-	-
42	9, 11, 13, 16, 21, 26, 31	-	-
45	6, 8, 10, 15, 20, 25	-	-
50	5, 6, 8, 10, 12, 15, 16, 20, 25, 30, 40	-	-
52	11, 13, 16, 21, 26, 42	-	-
55	5, 6, 8, 10, 12, 15, 16, 20, 25	-	-
57	32	-	-
60	6, 8, 10, 15, 20, 25, 30, 32, 35, 40	-	-
63	11, 13, 15, 16, 20, 21, 25, 30, 32, 42	-	-
65	8, 10, 15, 16, 20, 25, 30, 32, 35, 40	-	-
70	8, 20, 25, 30, 40	-	-
72	11, 21	-	-
75	5, 10, 12, 15, 20, 25, 30, 40	-	-
80	8, 10, 15, 20, 25, 30, 35, 40, 50	-	-
82	11, 13, 21, 31	-	-
90	8, 10, 15, 20, 30, 40, 50	-	-
100	6, 8, 10, 11, 12, 12.7, 13, 15, 20, 25, 30, 40	-	-
120	10, 12, 15, 16	-	-
150	8, 10, 12, 15, 16, 20	-	-

PRODUCT RANGE : GRADE AND SPECIFICATION



Product Range

Seamless OD:- 6.0 mm to 168.3 mm
Thickness:- 0.40 mm to 25.0 mm
Length:- Up to 30 meters

Stainless Steel Austenitic Specification and Grade:

A/SA-213, 269, 270, 312 (Pipe), A/SA-249 (Welded)
TP-304/304L/304H/310S/316/316L/316LN/316H/316Ti/317/317L/317LN/321/321H/347/347H/
UNS S31254 (Super Austenitic)

 Ferritic & Martensitic	A/SA-268, Grade:- TP-405/409/410/SUS 410L/430/446 -1-2 (UNS S 44660)
 Duplex Stainless Steel (DSS)	A/SA-789 (Tube), A/SA-790 (Pipe), Grade:- UNS S32803/S32205
 Super Duplex Stainless Steel (SDSS)	A/SA-789 (Tube), A/SA-790 (Pipe), Grade:- UNS S32750
 European Standard (Welded)	EN 10217-7, Grade:- 1.4307/1.4306/1.4301/1.4311/1.4511/ 1.4550/1.4404/1.4435/1.4436/1.4401/1.4429/1.4571/ 1.4539/1.4547/1.4438/1.463/1.5429/1.4439
 European Standard (Welded)	EN 10217-7, Grade:- 1.4307/1.4306/1.4301/1.4311/1.4511/ 1.4550/1.4404/1.4435/1.4436/1.4401/1.4429/1.4571/ 1.4539/1.4547/1.4438/1.463/1.5429/1.4439
 European Standard (Seamless)	EN 10216-5, Grade:- 1.4307/1.4306/1.4301/1.4311/1.4511/ /1.4550/1.4404/1.4435/1.4436/1.4401/ 1.4429/1.4571 /1.4539/1.4547/1.4438/1.463/1.5429/1.4439/1.4466 /1.4580/1.4429/1.4563/1.4558
 Titanium Alloy (Seamless & Welded)	Titanium Alloy (Seamless & Welded)

High Nickel Alloy

- B/SB 166 (Pipe/Tube), B/SB 163 (Tube) Grade:- UNS No2200 / 2201
- B/SB 165 (Tube/Pipe) MONEL 400 (UNS NO 4400)
- B/SB 163 (Tube)/167 (Pipe)/A44 (Tube/Pipe), Grade:- INCONEL UNS N06600/6625
- B/SB 407/423, Grade:- INCOLOY UNS N08800/8810/8825

Why Benchmark Steel Industries...

▲ Strong Foundation. Clear Vision.

Benchmark Steel is a next-generation stainless steel manufacturing company established with a commitment to quality, innovation, and customer satisfaction. Equipped with modern technology and guided by experienced professionals, we deliver reliable stainless steel solutions that meet the highest industry standards while building lasting partnerships with customers worldwide.

▲ Integrated Manufacturing

We operate a fully integrated manufacturing facility that manages the complete production cycle—from raw material sourcing and steel melting to rolling, heat treatment, machining, testing, finishing, and final dispatch. This integrated approach ensures complete traceability, consistent quality, and faster delivery.

▲ Modern Technology

Our manufacturing plants are equipped with advanced machinery, automated production systems, precision processing equipment, and modern quality-control technologies. Continuous investment in technology allows us to manufacture products that meet the latest international standards and demanding customer specifications.

▲ Quality Assurance

Quality is built into every stage of production. Each product undergoes rigorous inspection, mechanical testing, chemical analysis, dimensional verification, and non-destructive testing before dispatch. Our quality management systems ensure reliability, durability, and compliance with global industry standards.

▲ Experienced Team

Our strength lies in our people. With experienced metallurgists, engineers, production specialists, quality professionals, and customer support teams, we provide technical expertise and manufacturing excellence developed over decades of industry experience.

▲ Fast Delivery

Efficient production planning, optimized inventory management, and a strong logistics network enable us to deliver products within committed timelines. We understand the importance of project schedules and work to ensure timely supply without compromising quality.

▲ Technical Support

Our engineering and technical teams work closely with customers from project planning through final delivery. We assist in material selection, grade recommendations, specification compliance, fabrication guidance, and technical documentation to ensure the right solution for every application.

▲ Customized Manufacturing

Every project has unique requirements. We manufacture customized products in various grades, sizes, dimensions, finishes, and specifications according to customer drawings, international standards, and project-specific requirements. Sustainable Operations

Benchmark Steel is committed to responsible manufacturing through efficient resource utilization, energy conservation, waste reduction, recycling initiatives, and environmentally responsible production practices. Sustainability remains an integral part of our long-term growth strategy.



BENCHMARK

STEEL INDUSTRIES



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