SUBHLAXMI

STEEL AND ALLOYS PVT . LTD.

ENGINEERED FOR STRENGTH. BUILT TO LAST.

MANUFACTURER OF STEEL PRODUCTS

ALLOY STEEL | CARBON STEEL | STAINLESS STEEL

TÜV AUSTRIA CERTIFIED FHISC 2001 TÜV AUSTRIA CERT GMBH | CERTIFIED ISO 9001 | IS 14650 ISI CM/L 7200283011

www.subhlaxmisteelandalloys.com

CONTENTS.

CONTENTS	01
ABOUT US	02
VISION / MISSION / PEOPLE / PRESENCE	03
GROUP OF COMPANIES	04
PRODUCT CATALOGUE	05
ALLOY STEEL ROUND BARS	06
CARBON STEEL ROUND BARS	07
STAINLESS STEEL ROUND BARS	08
ALLOY STEEL INGOTS	09
ALLOY STEEL RCS	10
METALLURGICAL GRADES	11
GRADE MATRIX	12
QUALITY ASSURANCE	13
MANUFACTURING PROCESS	14
INFRASTRUCTURE	15
SUSTAINABILITY	16
APPLICATIONS	17
CONTACT	18

SUBHLAXMI
STEEL AND ALLOYS PVT . LTD.

ABOUT US

INDIA'S TRUSTED MANUFACTURER, SUPPLIER & EXPORTER OF STEEL PRODUCTS.

Subhlaxmi Steel & Alloys Pvt. Ltd. is a Gujarat-based manufacturer and supplier of Alloy Steel, Carbon Steel and Stainless Steel products.

Established in 2020, the company combines advanced manufacturing, precision engineering and quality-focused processes to deliver reliable steel solutions for diverse industrial applications.

With an annual production capacity of 38,000+ MT, our products serve industries including automotive, heavy engineering, construction, oil & gas, defence, power, forging and general engineering across India and international markets.

Our certifications in TÜV Austria FHISC 2001, ISO 9001:2015, and IS 14650 reflect our commitment to quality, process excellence, and consistent manufacturing standards.

AT A GLANCE

2020	38,000 MT	300,000+ SQ. FT.	INDIA & INTERNATIONAL
Established	Annual Capacity	Manufacturing Plant	Markets

OUR VISION

01

TO BECOME ONE OF INDIA'S MOST TRUSTED AND GLOBALLY RECOGNIZED STEEL MANUFACTURERS.

by delivering excellence through quality, innovation, and customer satisfaction.

OUR MISSION

02

TO MANUFACTURE AND SUPPLY SUPERIOR QUALITY STEEL PRODUCTS .

through advanced technology, skilled people, and a customer-first approach, creating long-term value for our clients, employees, and partners.

OUR PEOPLE

THE STRENGTH BEHIND EVERY BAR.

At Subhlaxmi Steel and Alloys, our people are the driving force behind our quality, innovation, and growth. A team of skilled professionals dedicated to excellence and committed to building lasting relationships with our customers.

01. EXPERIENCED TEAM

Our team brings together years of industry experience and technical expertise to deliver reliable steel solutions.

02. DRIVEN BY EXCELLENCE

We are committed to continuous improvement, innovation, and maintaining the highest quality standards.

03. CUSTOMER-FOCUSED

Our people work closely with customers to understand their needs and deliver solutions that create value.

04. BUILT ON INTEGRITY

We believe in transparency, respect, and ethical practices in every interaction and business decision.

CORE WORKFORCE PRINCIPLES: Skilled & Trained Professionals | Safety First Mindset | Collaborative Work Culture | Innovation Driven | Accountability & Ownership

OUR PRESENCE

INDIA AT OUR CORE. THE WORLD IN OUR REACH.

Proudly rooted in India, we serve industries nationwide with trust and excellence. Beyond boundaries, we export our premium steel solutions to international markets, building lasting partnerships worldwide.



QUALITY STEEL. BUILT WITH PRECISION

GROUP OF COMPANIES.

The Subhlaxmi Group brings together complementary businesses, capabilities and expertise under one vision delivering quality, reliability and long-term value across the industries we serve.

- MIRAI GROUP
- Lazer BELIEVE
- SHREEYASH STAINLESS PVT LTD
- SUBHLAXMI SPECIAL STEEL PVT LTD
- ADARSH STAINLESS PVT LTD
- RAWLA SAGRUN KUMBHALGARH
- KUNDAN INDUSTRIES LTD. Difference is nothing but quality
- Champion Steels
- Bhaggyesh Castings
- SHATAKSHI ALLOYS PVT. LTD.
- SUBHLAXMI CASTING PVT. LTD.
- SHATKASHI ESTATE PVT. LTD.

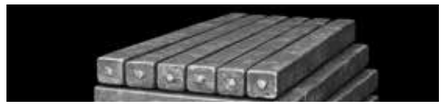
PRODUCT CATALOGUE

ENGINEERED STEEL BUILT FOR PERFORMANCE.



High-performance alloy, carbon & stainless steel round bars, ingots and Round Corner Squares (RCS) engineered to power global industries.

OUR PRODUCT RANGE

01	ALLOY STEEL ROUND BARS	High-yield fatigue strength, toughness & resilience	
02	CARBON STEEL ROUND BARS	Hot-rolled versatility for structural & engineering use	
03	STAINLESS STEEL ROUND BARS	Superior corrosion resistance for demanding environments	
04	ALLOY STEEL INGOTS	Premium cast blocks for rolling and high-pressure forging	
05	ALLOY STEEL RCS	Defect-free round corner squares for high-stress automotive drop forging	

05 Product Categories

100+ Steel Grades

130MM Max Diameter

12+ key industries

ALLOY STEEL ROUND BARS.



Subhlaxmi Steel is a premier manufacturer and exporter of high-integrity alloy steel round bars. Engineered for exceptional fatigue strength, structural resilience, and toughness, our bars deliver high yield characteristics and superior weldability under extreme operating stresses.

We manufacture widely specified grades including EN24, EN31, and SAE 4140. Pre-hardened bars can be surface-hardened via nitriding, flame, or induction hardening on request.

KEY SPECIFICATIONS

Size Range:	16 mm – 130 mm diameter
Standards:	IS, ASTM, DIN, BS, EN, JIS, GOST, Customer Specifications
Supply Form:	Round Bars, Forging Stock
Surface Finish:	Black (Hot Rolled), Annealed & Straightened, Slow Cooled, Normalised
Heat Treatment:	Annealing available on request
Supply Conditions:	Hot Rolled, Annealed, Straightened

AVAILABLE GRADES

Grade	C (%)	Mn (%)	Si (%)	Cr (%)	Ni (%)	Mo (%)	V (%)	P max (%)	S max (%)
EN19	0.35–0.45	0.50–0.80	0.10–0.35	0.90–1.50	—	0.20–0.40	—	0.050	0.050
4140	0.38–0.43	0.75–1.00	0.15–0.30	0.80–1.10	—	0.15–0.25	—	0.035	0.40
EN24	0.35–0.45	0.45–0.70	0.10–0.35	0.90–1.40	1.30–1.80	0.20–0.35	—	0.050	0.050
EN31	0.90–1.20	0.30–0.75	0.10–0.35	1.00–1.60	—	—	—	0.050	0.050
EN8	0.35–0.45	0.60–1.00	0.05–0.35	—	—	—	—	0.060	0.060
EN9	0.50–0.60	0.50–0.80	0.05–0.35	—	—	—	—	0.060	0.060
EN18	0.35–0.45	0.60–0.95	0.10–0.35	0.85–1.15	—	—	—	0.050	0.050
EN36	0.12–0.18	0.30–0.60	0.10–0.35	0.60–1.10	3.00–3.75	0.10–0.25	—	0.050	0.050
EN353	0.15–0.20	0.50–1.00	max 0.35	0.75–1.25	1.00–1.50	0.08–0.15	—	0.050	0.050
SAE8620	0.18–0.23	0.70–0.90	0.20–0.35	0.40–0.60	0.40–0.70	0.15–0.25	—	0.040	0.040
16MnCr5	0.14–0.19	1.00–1.30	0.15–0.40	0.80–1.10	—	—	—	0.035	0.035
20MnCr5	0.17–0.22	1.10–1.40	0.15–0.40	1.00–1.30	—	—	—	0.035	0.035
42CrMo4	0.38–0.45	0.50–0.80	0.15–0.40	0.90–1.20	—	0.15–0.30	—	0.035	0.035
34CrNiMo6	0.30–0.38	0.50–0.80	max 0.40	1.30–1.70	1.30–1.70	0.15–0.30	—	0.035	0.035
H11 Tool Steel	0.33–0.43	0.20–0.50	0.80–1.20	4.75–5.50	—	1.10–1.60	0.30–0.60	0.030	0.030
H13 Tool Steel	0.32–0.45	0.20–0.50	0.80–1.20	4.75–5.50	—	1.10–1.75	0.80–1.20	0.030	0.030

APPLICATIONS

Oil Drilling & Gas Processing, Petrochemicals, Power Generation, Heat Exchangers, Railways, Defence, OEM Auto Components, Engineering Goods, Paper & Pulp Industry, Pharmaceuticals, Specialty Chemicals, Sea Water Equipment.

CARBON STEEL ROUND BARS.



Our carbon steel round bars are manufactured to deliver reliable structural strength, high ductility, and excellent machining properties. Hot rolled to ensure uniform grain structure and consistent mechanical properties throughout the cross section.

We supply key grades such as IS 2062, C45/C50 medium carbon steel, and SAE 1018/1020 low carbon.

KEY SPECIFICATIONS

Size Range:	16 mm – 130 mm diameter
Supply Condition:	Hot Rolled
Standards:	IS, ASTM, Customer Specifications
Surface :	Black (Hot Rolled)
Supply Form:	Round Bars

AVAILABLE GRADES

Grade	C (%)	Mn (%)	Si (%)	P max (%)	S max (%)
IS2062	max 0.22	max 1.50	max 0.40	0.045	0.045
C20	0.15–0.25	0.30–0.60	0.15–0.35	0.050	0.050
C30	0.25–0.35	0.60–0.90	0.15–0.35	0.050	0.050
C35	0.32–0.38	0.50–0.80	0.15–0.35	0.050	0.050
C40	0.37–0.44	0.60–0.90	0.15–0.35	0.050	0.050
C45	0.42–0.50	0.50–0.80	0.15–0.35	0.035	0.035
C50	0.47–0.55	0.60–0.90	0.15–0.35	0.045	0.045
C55	0.52–0.60	0.60–0.90	max 0.40	0.045	0.045
SAE1018	0.15–0.20	0.60–0.90	0.15–0.30	0.040	0.050
SAE1020	0.18–0.23	0.30–0.60	0.15–0.30	0.040	0.050
SAE1040	0.37–0.44	0.60–0.90	0.15–0.30	0.040	0.050
SAE1045	0.43–0.50	0.60–0.90	0.15–0.30	0.040	0.050
SAE1050	0.48–0.55	0.60–0.90	0.15–0.30	0.040	0.050

APPLICATIONS

General Engineering, Structural Fabrication, Automotive Components, Machine Parts, Agricultural Equipment, Construction Machinery.

STAINLESS STEEL ROUND BARS.



Designed for harsh environments, our stainless steel round bars offer elite resistance to pitting, crevice corrosion, and high-temperature oxidation.

We produce a wide selection of premium austenitic grades (SS304/304L, SS316/316L) and martensitic grades (SS410, SS420, SS431) which are heat-treatable for high mechanical strength.

KEY SPECIFICATIONS

Size Range:	16 mm – 130 mm diameter
Standards:	ASTM, DIN, BS, IS, EN, Customer Specifications
Supply Form:	Round Bars
Surface Finish:	Bright Polished, Black, BA Finish, Rough Turned
Grade Types:	Austenitic, Martensitic, Ferritic

AVAILABLE GRADES

Grade	C (%)	Mn (%)	Si (%)	Cr (%)	Ni (%)	Mo (%)	P max (%)	S (%)
SS304	max 0.08	max 2.00	max 1.00	18.00–20.00	8.00–10.50	—	0.045	max 0.030
SS304L	max 0.030	max 2.00	max 1.00	18.00–20.00	8.00–12.00	—	0.045	max 0.030
SS316	max 0.08	max 2.00	max 1.00	16.00–18.00	10.00–14.00	2.00–3.00	0.045	max 0.030
SS316L	max 0.030	max 2.00	max 1.00	16.00–18.00	10.00–14.00	2.00–3.00	0.045	max 0.030
SS410	0.08–0.15	max 1.00	max 1.00	11.50–13.50	max 0.75	—	0.040	max 0.030
SS416	max 0.15	max 1.25	max 1.00	12.00–14.00	—	max 0.60 (opt)	0.060	0.15–0.35
SS420	0.15–0.36	max 1.00	max 1.00	12.00–14.00	—	—	0.040	max 0.030
SS431	0.12–0.22	max 1.00	max 1.00	15.00–17.00	1.25–2.50	—	0.040	max 0.030

APPLICATIONS

Chemical Processing, Food & Beverage Industry, Pharmaceutical Equipment, Marine & Sea Water, Architecture & Interiors, Oil & Gas Equipment.

ALLOY STEEL INGOTS.



We cast premium alloy steel ingots using advanced bottom-pouring techniques via the Electric Induction Furnace (EIF) route, utilizing carefully selected scrap and raw materials. Available in square forging ingot formats from 130 to 650 kg.

We produce key forging grades such as EN19, EN24, EN353, and H13 tool steel, fully grinded or spot grinded.Stamped markings with the heat number and weight ensure full traceability.

KEY SPECIFICATIONS

Mfg. Route:	EIF (Electric Induction Furnace)
Sizes (Inches):	4×5, 5×6, 5.5×6.5, 7×8, 8.5x9.5, 9×10, 9.5×10.25
Length:	44 mm to 56 mm
Ingot Weight:	130 to 650 kg
Shape:	Square, Forging Ingot
Marking:	Grade, Heat Number, Weight & Size
Surface:	Fully Grinded or Spot Grinded
Standards:	IS, ASTM, DIN, Customer Specifications

AVAILABLE GRADES

Grade	C (%)	Mn (%)	Si (%)	Cr (%)	Ni (%)	Mo (%)	V (%)	P max (%)	S max (%)
EN19	0.35–0.45	0.50–0.80	0.10–0.35	0.90–1.50	—	0.20–0.40	—	0.050	0.050
EN24	0.35–0.45	0.45–0.70	0.10–0.35	0.90–1.40	1.30–1.80	0.20–0.35	—	0.050	0.050
EN31	0.90–1.20	0.30–0.75	0.10–0.35	1.00–1.60	—	—	—	0.050	0.050
EN353	0.15–0.20	0.50–1.00	max 0.35	0.75–1.25	1.00–1.50	0.08–0.15	—	0.050	0.050
SAE8620	0.18–0.23	0.70–0.90	0.20–0.35	0.40–0.60	0.40–0.70	0.15–0.25	—	0.040	0.040
42CrMo4	0.38–0.45	0.50–0.80	0.15–0.40	0.90–1.20	—	0.15–0.30	—	0.035	0.035
H13	0.32–0.45	0.20–0.50	0.80–1.20	4.75–5.50	—	1.10–1.75	0.80–1.20	0.030	0.030

APPLICATIONS

General Engineering, Structural Fabrication, Automotive Components, Machine Parts, Agricultural Equipment, Construction Machinery.

ALLOY STEEL RCS.



Our Round Corner Squares (RCS) are hot-rolled specifically for high-integrity forging. Engineered with safe-handling radius corners, they are processed to be free from surface defects, cracks, or scale shuts. Produced in size squares from 65 mm to 100 mm in EN19, EN24, and 34CrNiMo6 grades.

KEY SPECIFICATIONS

Available Sizes:	65×65, 75×75, 90×90, 100×100 mm
Testing:	100% Ultrasonic Testing (UT)
Heat Treatment:	Soft Annealing, Solution Annealing
Surface Finish:	Hot Rolled Black, Spot Grinded, Fully Grinded
Environment:	Free from Lead, Mercury & Radioactive Elements

AVAILABLE GRADES

Grade	C (%)	Mn (%)	Si (%)	Cr (%)	Ni (%)	Mo (%)	P max (%)	S max (%)
EN19	0.35–0.45	0.50–0.80	0.10–0.35	0.90–1.50	—	0.20–0.40	0.050	0.050
EN24	0.35–0.45	0.45–0.70	0.10–0.35	0.90–1.40	1.30–1.80	0.20–0.35	0.050	0.050
EN31	0.90–1.20	0.30–0.75	0.10–0.35	1.00–1.60	—	—	0.050	0.050
EN353	0.15–0.20	0.50–1.00	max 0.35	0.75–1.25	1.00–1.50	0.08–0.15	0.050	0.050
SAE8620	0.18–0.23	0.70–0.90	0.20–0.35	0.40–0.60	0.40–0.70	0.15–0.25	0.040	0.040
42CrMo4	0.38–0.45	0.50–0.80	0.15–0.40	0.90–1.20	—	0.15–0.30	0.035	0.035
34CrNiMo6	0.30–0.38	0.50–0.80	max 0.40	1.30–1.70	1.30–1.70	0.15–0.30	0.035	0.035

APPLICATIONS

Automotive Drop Forging, Industrial Flanges Production, High-Pressure Pipeline Fittings, Heavy Engineering Structural Parts, Crankshaft & Connecting Rod Blanks, Agricultural Implement Forgings.

Grades

METALLURGICAL GRADES.

Our metallurgical grades are developed to meet diverse industrial requirements, with controlled chemical composition and consistent material performance across demanding engineering applications.

GRADE	C	Mn	Si	S	P	Cr	Ni	Mo
EN1A	0.07-0.15	0.80-1.20	0.10 MAX	0.20-0.30	0.07 MAX	·	·	·
EN3A	0.15-0.25	0.40-0.90	0.05-0.35	0.06 MAX	0.06 MAX	·	·	·
EN5	0.25-0.35	0.60-1.00	0.05-0.35	0.060 MAX	0.060 MAX	·	·	·
EN6	0.40 MAX	0.50-0.90	0.05-0.35	0.060 MAX	0.060 MAX	·	·	·
EN8	0.35-0.45	0.60-1.00	0.05-0.35	0.060 MAX	0.060 MAX	·	·	·
EN9	0.50-0.60	0.50-0.80	0.05-0.35	0.060 MAX	0.060 MAX	·	·	·
EN15	0.30-0.40	1.30-1.70	0.10-0.35	0.050 MAX	0.050 MAX	·	·	·
EN16	0.30-0.40	1.30-1.80	0.10-0.35	0.050 MAX	0.050 MAX	·	·	0.20-0.35
EN18	0.35-0.45	0.60-0.95	0.10-0.35	0.050 MAX	0.050 MAX	0.85-1.15	·	·
EN19	0.35-0.45	0.50-0.80	0.10-0.35	0.050 MAX	0.050 MAX	0.90-1.50	·	0.20-0.40
EN24	0.35-0.45	0.45-0.70	0.10-0.35	0.050 MAX	0.050 MAX	0.90-1.40	·	0.20-0.35
EN25	0.27-0.35	0.50-0.70	0.10-0.35	0.050 MAX	0.050 MAX	0.50-0.80	2.30-2.80	0.40-0.70
EN31	0.90-1.20	0.30-0.75	0.10-0.35	0.050 MAX	0.050 MAX	1.00-1.60	·	·
EN36C	0.12-0.18	0.30-0.60	0.10-0.35	0.050 MAX	0.050 MAX	0.60-1.60	3.00-3.75	0.10-0.25
EN41B	0.35-0.45	0.65 MAX	0.10-0.35	0.050 MAX	0.050 MAX	1.40-1.80	0.40 MAX	0.10-0.25
EN42J	0.75-0.90	0.60-0.90	0.35 MAX	0.050 MAX	0.050 MAX	·	·	·
EN45	0.55-0.60	0.70-1.00	1.50-2.00	0.050 MAX	0.050 MAX	·	·	·
EN47	0.45-0.55	0.50-0.80	0.50 MAX	0.050 MAX	0.050 MAX	0.80-1.20	·	·
EN353	0.20 MAX	0.50-1.00	0.35 MAX	0.050 MAX	0.050 MAX	0.75-1.25	1.00-1.50	0.08-0.15
EN354	0.15-0.21	0.50-0.90	0.15-0.35	-	-	0.80-1.20	·	·
EN355	0.20 MAX	0.40-0.70	0.35 MAX	0.050 MAX	0.050 MAX	1.40-1.70	1.80-2.20	0.15-0.25
20C8	0.15-0.25	0.60-0.90	0.15-0.35	0.040 MAX	0.040 MAX	·	·	·
40C8	0.35-0.45	0.60-0.90	0.10-0.35	0.040 MAX	0.040 MAX	·	·	·
45C8	0.40-0.50	0.60-0.90	0.10-0.35	0.040 MAX	0.040 MAX	·	·	·
55C8	0.50-0.60	0.60-0.90	0.10-0.35	0.040 MAX	0.040 MAX	·	·	·

SUBHLAXMI
STEEL AND ALLOYS PVT . LTD.
QUALITY STEEL. BUILT WITH PRECISION

GRADE MATRIX

GRADE	C	Mn	Si	S	P	Cr	Ni	Mo
E250A	0.23 MAX	1.50 MAX	0.40 MAX	0.045 MAX	0.045 MAX	·	·	·
E250BR	0.22 MAX	1.50 MAX	0.40 MAX	0.045 MAX	0.045 MAX	·	·	·
AISI 1018	0.15-0.20	0.60-0.90	-	0.050 MAX	0.040 MAX	·	·	·
AISI 1045	0.43-0.50	0.60-0.90	-	0.050 MAX	0.040 MAX	·	·	·
AISI 4140	0.38-0.43	0.75-1.00	0.15-0.30	0.40 MAX	0.035 MAX	0.80-1.10	·	0.15-0.25
AISI 8620	0.18-0.23	0.70-0.90	0.15-0.30	0.40 MAX	0.035 MAX	0.40-0.60	0.40-0.70	0.15-0.25
16MNCR5	0.14-0.19	1.00-1.30	0.15-0.40	0.35 MAX	0.035 MAX	0.80-1.10	·	·
20MNCR5	0.17-0.22	1.10-1.40	0.15-0.40	0.35 MAX	0.035 MAX	1.00-1.30	·	·
42CRMO4	0.38-0.45	0.50-0.80	0.15-0.40	0.35 MAX	0.035 MAX	0.90-1.20	·	0.15-0.30
42Cr4Mo2	0.38-0.45	0.60-0.90	0.10-0.40	0.035 MAX	0.025 MAX	0.90-1.20	·	0.15-0.30
41Cr4	0.38 - 0.45	0.50 - 0.80	0.15 - 0.40	0.035 MAX	0.035 Max	0.90 - 1.20	·	·
SAE4142	0.40-0.45	0.75-1.00	0.15-0.30	0.040 MAX	0.035 MAX	0.80-1.10	·	0.15-0.25
SAE4340	0.38 - 0.43	0.60 - 0.80	0.15 - 0.30	0.035 MAX	0.040 Max	0.70 - 0.90	1.65 - 2.00	0.20 - 0.30
SAE4320	0.17-0.22	0.45-0.65	0.15-0.30	0.040 MAX	0.035 MAX	0.40-0.60	1.65-2.00	0.20 - 0.30
SAE8620	0.18 - 0.23	0.70 - 0.90	0.20 - 0.35	0.040 MAX	0.040 Max	0.40 - 0.60	0.40 - 0.70	0.15 - 0.25
SAE1020	0.18-0.23	0.30-0.60	0.10-0.30	0.035 MAX	0.030 MAX	·	·	·
SAE 52100	0.98 - 1.10	0.25 - 0.45	0.15 - 0.30	0.025 MAX	0.025 Max	1.30 - 1.60	·	·
SAE1141	0.37 - 0.45	1.35 - 1.65	·	0.080 - 0.130	0.040 Max	·	·	·
SAE1140	0.37 - 0.44	0.70 - 1.00	·	0.080 - 0.130	0.040 Max	·	·	·
SAE1160	0.55-0.65	0.70-1.00	·	0.080-0.130	0.040 MAX	·	·	·
SCM435 H	0.32 - 0.39	0.55 - 0.90	0.15 - 0.35	0.030 MAX	0.030 Max	0.85 - 1.25	·	0.15 - 0.35
SCM420	0.17 - 0.23	0.55 - 0.90	0.15 - 0.35	0.030 MAX	0.030 Max	·	·	0.15 - 0.35
CK45	0.42 - 0.50	0.50 - 0.80	0.15 - 0.35	0.035 MAX	0.035 Max	·	·	·
C55	0.52-0.60	0.60-0.90	0.10-0.40	0.045 MAX	0.045 MAX	·	·	·
34CrNiMo6	0.30-0.38	0.50-0.80	0.10-0.40	0.035 MAX	0.025 MAX	1.30-1.70	1.30-1.70	0.15-0.30
H11	0.33 - 0.43	0.20 - 0.50	0.80 - 1.20	0.030 MAX	0.030 Max	4.75 - 5.50	·	1.10 - 1.60
H13	0.32 - 0.45	0.20 -0.50	0.80 - 1.20	0.030 MAX	0.030 Max	4.75 - 5.50	·	1.10 - 1.75
34CR4	0.30 - 0.37	0.60 - 0.90	0.05 - 0.40	0.030 MAX	0.035 Max	0.90 - 1.20	·	·

Quality Assurance

A DISCIPLINED PROCESS FOR SUPERIOR QUALITY.

From raw material spectral analysis to final immersion ultrasonic testing, every heat batch undergoes a mandatory quality gate ensuring 100% compliance with international standards.

OUR QUALITY PROCESS

01 RAW MATERIAL INSPECTION:

Sourced scrap, virgin metals, and alloy additions verified for chemical composition, material grade, physical properties, and heat traceability documentation.

02 IN-PROCESS INSPECTION:

Continuous quality monitoring during cutting, melting, rolling, and machining stages with optical pyrometry and dimensional checks.

03 HEAT TREATMENT MONITORING:

Controlled heating cycles, digital pyrometry temperature logging, controlled cooling, and process documentation ensuring optimal hardness and strength.

04 MECHANICAL TESTING:

Universal Tensile Testing Machine (UTM) testing for tensile strength, 0.2% yield stress, elongation %, impact toughness, Jominy end-quench test, and Brinell/ Rockwell hardness.

05 NON-DESTRUCTIVE TESTING (NDT):

100% Volumetric Immersion Ultrasonic Testing (UT) for internal soundness and Magnetic Particle Inspection (MPI) for surface flaw clearance.

06 FINAL INSPECTION & CERTIFICATION:

Comprehensive final audit of dimensional tolerances (h9-h12), surface finish Ra, color-code identification, protective packing, and MTC EN 10204 3.1 issuance.

IN-HOUSE METALLURGICAL LABORATORY

01 OPTICAL EMISSION SPECTROMETER (OES)

Multi-element chemical composition analysis and trace element verification.

02 HANDHELD PMI GUN

Rapid on-site elemental analysis for 100% material grade verification.

03 OPTICAL METALLURGICAL MICROSCOPE

Microstructural examination for grain size measurement, phase identification and inclusion rating.

04 UNIVERSAL TENSILE & JOMINY SETUP

Tensile strength, 0.2% yield stress, elongation, impact toughness and Jominy hardenability testing.

05 IMMERSION TYPE ULTRASONIC TESTING (UT)

Volumetric immersion ultrasonic testing for internal soundness and void detection.

06 MAGNETIC PARTICLE INSPECTION (MPI)

High-sensitivity electromag-netic testing for surface flaw clearance.

CONTINUOUS IMPROVEMENT

Driven by innovation and a future-ready mindset, we continuously invest in people, processes, automation, research & development, advanced testing equipment, and employee skill development.

RESPONSIBLE OPERATIONS.

Safety, reliability, and sustainability are at the core of our operations — encompassing systematic production planning, preventive equipment maintenance, workplace safety, and environmentally responsible practices.

SUBHLAXMI
STEEL AND ALLOYS PVT . LTD.

QUALITY STEEL. BUILT WITH PRECISION

MANUFACTURING

OUR MANUFACTURING PROCESS.

A controlled 13-stage manufacturing process transforms raw materials into precision-engineered steel products with consistent quality and traceability.

STEP 01 — RAW MATERIAL
RAW MATERIAL SELECTION & AUDIT



STEP 02 — MATERIAL CHECK
MATERIAL SORTING & SPECTRO ANALYSIS



STEP 03 — MELTING
ELECTRIC INDUCTION FURNACE MELTING



STEP 04 — REFINING
LADLE REFINING



STEP 05 — CASTING
BOTTOM-POURED INGOT CASTING



STEP 06 — SURFACE PREP
INGOT GRINDING & INSPECTION



STEP 07 — REHEATING
REHEATING PROCESS & SOAKING



STEP 08 — FORMING
HOT ROLLING MILL



STEP 09 — COOLING
CONTROLLED COOLING BEDS



STEP 10 — HEAT TREATMENT
PRECISION HEAT TREATMENT



STEP 11 — FINISHING
COLD FINISHING OPERATIONS



STEP 12 — QUALITY ASSURANCE
COMPREHENSIVE FINAL INSPECTION & NDT



STEP 13 — LOGISTICS
PACKING, MARKING & DISPATCH



OUR
INFRASTRUCTURE.

Advanced infrastructure , controlled processes and precision engineering for consistent steel quality.

38,000 MT
ANNUAL CAPACITY

300K+SQ.FT.
PLANT FACILITY

100%
IN-HOUSE TESTING

13 STAGES
PROCESS CONTROL

PRODUCTION HARDWARE

ADVANCED MACHINERY & EQUIPMENT.

Equipped with high-performance manufacturing technology, modern melting furnaces, multi-stand rolling lines and computerized thermal processing units.

01 — ELECTRIC INDUCTION FURNACE (EIF)



High-efficiency induction furnaces for melting with precise thermal control, ensuring clean liquid metal and exact chemical composition.

02 — CONTINUOUS HOT ROLLING MILL



Multi-stand rolling setup producing rounds (16mm to 130mm) and RCS with uniform dimensions and structural integrity.

03 — HEAT TREATMENT FURNACES



Computerised thermal processing ensures controlled heating, annealing, normalizing, hardening and tempering for optimal mechanical properties.

04 — FINISHING & HANDLING SYSTEMS



Centerless bar peeling, grinding, straightening and automated material handling for superior surface finish and precision.

WHY OUR INFRASTRUCTURE STANDS APART

Our integrated infrastructure and process control ensure reliable quality, operational efficiency and consistency at every stage.

01 ADVANCED FACILITY
Integrated infrastructure built for precision, efficiency and consistent quality.

02 SUPERIOR MANUFACTURING
Advanced melting, rolling and heat treatment technology to deliver superior performance.

03 QUALITY ASSURANCE
Rigorous inspections and in-house testing ensure flawless quality at every stage.

04 PROCESS CONTROL
Systematic process control and traceability from raw material to final dispatch.

05 HIGH PRODUCTION EFFICIENCY
Optimized processes and modern equipment ensure consistent output and on-time d elivery.

06 GLOBAL STANDARDS COMPLIANCE
Manufacturing and quality systems aligned with national and international standards.



SUBHLAXMI
STEEL AND ALLOYS PVT . LTD.

OUR
SUSTAINABILITY

Powering a cleaner tomorrow through responsible energy practices and a greener future.

CLEAN ENERGY

POWERING STEEL. WITH LESS CARBON.

Our 8 MW captive solar plant in Banaskantha, Gujarat generates approximately 9 million units of clean electricity every year — meeting nearly 50% of our annual energy requirement through renewable power.

8 MW
CAPTIVE SOLAR PLANT

~9 M
UNITS PER YEAR

~50%
OF ANNUAL ENERGY REQUIREMENT

7,380
TONNES OF CO_2 AVOIDED EVERY YEAR

OUR APPROACH

01 EFFICIENCY
Optimising energy usage across operations to reduce overall consumption.

02 RENEWABLE POWER
Utilising clean solar energy to power our manufacturing processes and reduce dependence on conventional sources.

03 RESPONSIBILITY
Committed to long-term environmental stewardship and a more sustainable future.

THE PLANT IN REALITY.







Built for every industry

THE RIGHT STEEL FOR EVERY APPLICATION.

From infrastructure to innovation. our steel bars power the industries that build the world.

01 AUTOMOTIVE

High-performance steel solutions for critical and precision components in the automotive industry.



02 OIL & GAS INDUSTRIES

Reliable steel solutions for demanding operations in the oil and gas industry.



03 ENERGY & POWER

Steel products supporting efficient and reliable power generation and infrastructure.



04 HEAVY ENGINEERING

High-strength steel for heavy duty performance and precision engineering.



05 RAILWAYS

Dependable steel solutions for advanced and safer rail infrastructure.



06 MARINE

Engineered steel for strength and reliability in harsh and corrosive environments.



07 WIND MILLS

Supporting clean energy with reliable and high- performance steel.



08 AND MORE

Versatile steel solutions for diverse and evolving industries.



MATERIALS THAT BUILD MORE.

SUBHLAXMI
STEEL AND ALLOYS PVT . LTD.

QUALITY STEEL. BUILT WITH PRECISION

Get In Touch

LET'S BUILD A STRONGER TOMORROW.

Whether you have a requirement, a question, or a new opportunity we're here to support you with reliable steel solutions.

EMAIL US

info@subhlaxmisteelandalloys.com
sales@subhlaxmisteelandalloys.com
purchase@subhlaxmisteelandalloys.com

BUSINESS HOURS

Monday – Saturday: 10:00 AM – 7:00 PM
Sunday: Closed

OUR LOCATIONS

01 STEEL PLANT

Plot No. 21-22, Panchratna Industrial Estate, Nr. Laxminarayan Petrol Pump, Sarkhej-Bavla Highway, Changodar, Ahmedabad - 382213, Gujarat, India.

02 ROLLING MILL

Plot No. 39, Panchratna Industrial Estate, Near Laxminarayan Petrol Pump, Sarkhej-Bavla Highway, Changodar, Ahmedabad - 382213, Gujarat, India.

03 AHMEDABAD REGISTERED ADDRESS

Bunglow 11, PrernaVihar Bunglows, Near Nandkunj Corp. Society, Satellite, Ahmedabad - 380015, Gujarat, India.

04 MUMBAI REGISTERED ADDRESS

301, 3rd Floor, A Wing, Krishvi Escape, Near Vinay Health Home, Fanaswadi Bhuleshwar, Mumbai - 400002, Maharashtra, India.

www.subhlaxmisteelandalloys.com

SUBHLAXMI
STEEL AND ALLOYS PVT . LTD.

STEEL THAT BUILDS INDUSTRIES

info@subhlaxmisteelandalloys.com
sales@subhlaxmisteelandalloys.com

Plot No. 21-22, Panchratna Industrial Estate, Nr. Laxminarayan Petrol Pump, Sarkhej-Bavla Highway, Changodar, Ahmedabad - 382213, Gujarat, India.

TÜV AUSTRIA CERTIFIED FMISC 2001

ISO 9001

IS 14650
CM/L 7200283011