

# SHAH & SHAH STEELS



**SHAH & SHAH STEELS**

House of carbon, Tool & Alloy Steels

An ISO 9001:2015 JAS Global Certified Company





# ABOUT US

Founded by Mr. Sandeep Shah in 1997, Shah & Shah Steels is an ISO 9001:2015 certified company and a trusted name in the steel industry with over 27 years of excellence.

As pioneers in the field, we are recognized among the top-rated Stockists & suppliers of carbon steel, tool steel, die steel and alloy steel in Chennai.

At Shah & Shah Steels, we take pride in offering one of the widest and most trusted selections of steel grades in Chennai, making us a preferred partner for a wide range of industrial applications.

Our extensive inventory includes popular and specialized grades such as: MS, EN8, EN9, EN19, EN24, EN31, EN32B, EN36, EN41B, EN43B, EN47, En353, IS2062, 42CrMo4, HCHCR, D2, D3, DB6H-11, H-13, CW-1, OHNS, M2, DIN 2714, SKD-11, P20, P20Ni, SCM420, ASTM SA-105, SAE1018, SAE1020, SAE4140, SAE8620, 16MnCr5, C20, C35, C40, C45, C50, CK45, 20Mn2, 20C8, 40C8, 45C8, 55C8, C55Mn75, SAE52100, S40C, ST52.3, and S355J2G3.

Each grade is carefully stocked to meet exacting industry standards including IS, BS, ASTM, DIN, and more – ensuring that our clients receive nothing but the finest quality materials every time.



# WHY CHOOSE SHAH & SHAH STEELS?



## Quality You Don't Have to Second-Guess

When you're trading steel, consistency matters. We supply only reliable, tested material – so you don't have to worry about complaints from your buyers or returns that eat into your profit.

## Easy to Work With

We get how trading works – tight timelines, quick deals, and the need for flexibility. We're here to make your job easier, not harder. Clear communication, straightforward dealing, and support when you need it.



## Stock When You Need It

No one likes to lose a deal because the material isn't available. We maintain a solid inventory and work fast so you can fulfill orders without delay.

## Good Margins, Fair Prices

We keep our pricing competitive so you can maintain healthy margins. No hidden costs, no surprises – just honest rates that let you do business with confidence.



## All Varieties in One Place

From tool steels to alloy and carbon grades, we've got a wide selection. No need to chase multiple sources—we help you save time, effort, and money.

## Built for Long-Term Business

We're not looking for one-time deals. We believe in long-term partnerships where both sides grow. When you win, we win—and that's how we like to do business.





# CEO'S MESSAGE

Founded by Mr. Sandeep Shah in 1998, Shah & Shah Steels is an ISO 9001:2015 certified company and a trusted name in the steel industry with over 27 years of excellence. As pioneers in the field, we are recognized among the top-rated suppliers and manufacturers of Carbon Steel, Tool Steel, Die Steel, and Alloy Steel in Chennai.

We specialize in a wide spectrum of premium steel grades including Hot Work & Cold Work Tool Steel, High-Speed Steel, Spring Steel, Forging Steel, Nitriding Steel, Case Hardening Steel, Plastic Mould Steel, Alloy Constructional Steel, and more available in rounds, flats, squares, and plates ranging from 16mm to 1000mm, all conforming to IS, BS, ASTM, DIN, and other global standards.

At Shah & Shah Steels, quality isn't just a promise – it's our legacy. Every product is meticulously sourced and tested to meet or exceed international benchmarks, ensuring optimal performance across manufacturing, engineering, construction, and other high-demand sectors. With deep technical expertise, a customer-first approach, and an unwavering commitment to excellence, we don't just deliver steel -we deliver trust.



# VISION AND MISSION

## Vision



At Shah & Shah Steel, our vision is to be the undisputed leader in the regional steel supply industry—recognized for our commitment to quality, innovation, and customer satisfaction. We strive to expand our presence while maintaining the personalized service and strong relationships that define us. By embracing new technologies and evolving industry practices, we remain at the forefront of progress. We are dedicated to fostering a culture of excellence, teamwork, and professionalism, and we believe in the power of collaboration with our customers, suppliers, and community. Our goal is to grow responsibly and contribute meaningfully to the society we serve.

## Mission



At Shah & Shah Steel, our mission is to be the trusted supplier of tool, alloy, and carbon steels—delivering consistent quality, value, and performance. We are committed to sourcing only the highest-grade steels that meet industry standards and customer requirements, while offering cost-effective solutions. Exceptional service is at the heart of what we do. With a responsive and knowledgeable team, we aim to understand and fulfill each customer's unique needs. We believe in long-term partnerships built on trust, transparency, and timely delivery—ensuring smooth, reliable operations for every client.



# OUR PRODUCTS

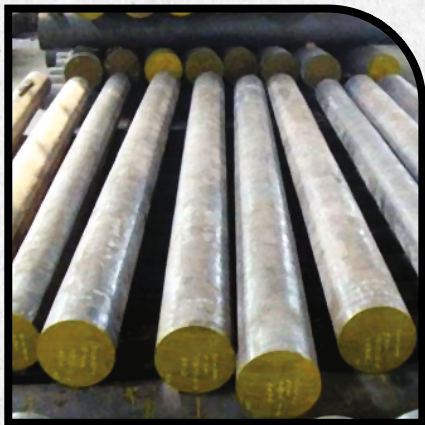
## CARBON STEEL



ASTM A36



20Mn2



C 45



ASTM SA 105



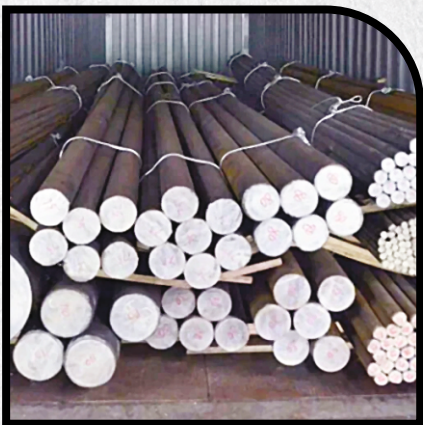
C 20



C 50



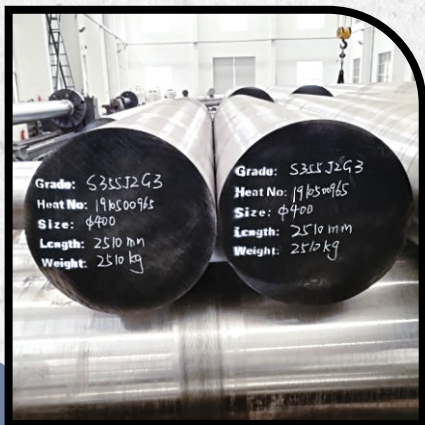
EN 9



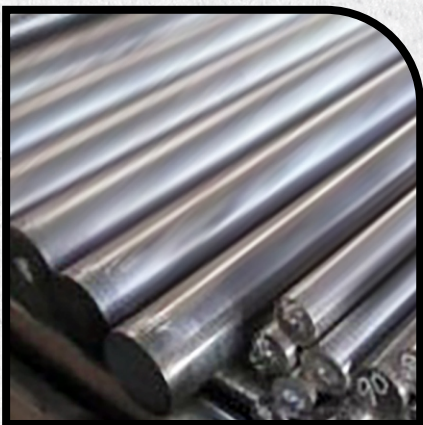
EN 8



IS 2062



S 335 J2 G3



SAE 1018



ST52.3



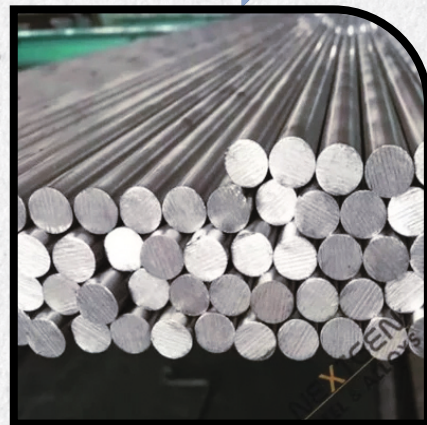
# ALLOY STEEL



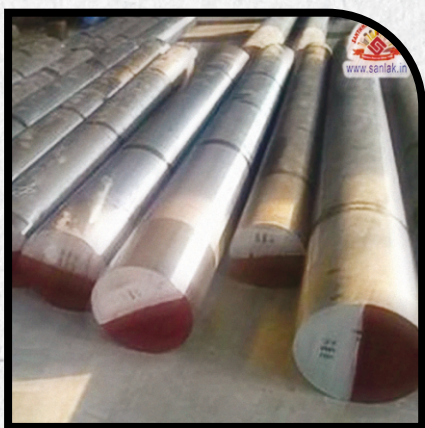
EN 36C



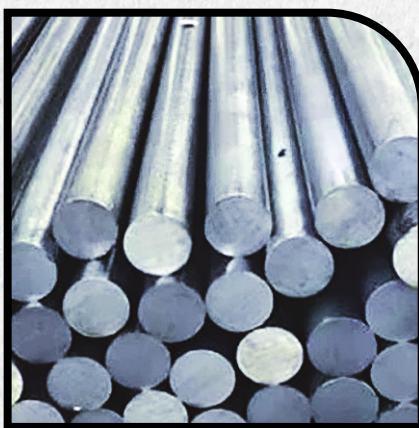
EN 353



EN 31



EN 24



EN 47



EN 41B



SAE 4140



SAE 52100



SAE 8620



EN19



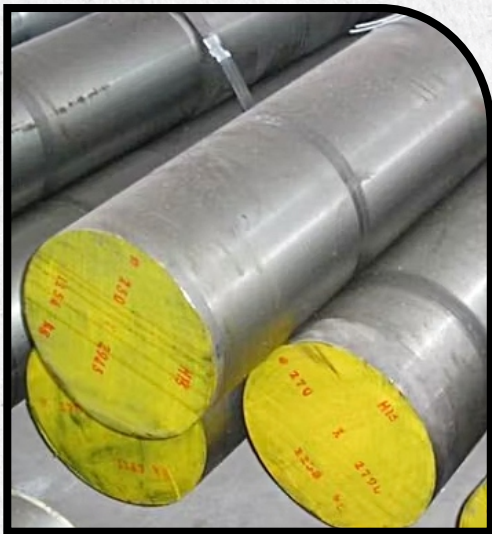
42CrMo4



20MnCr5



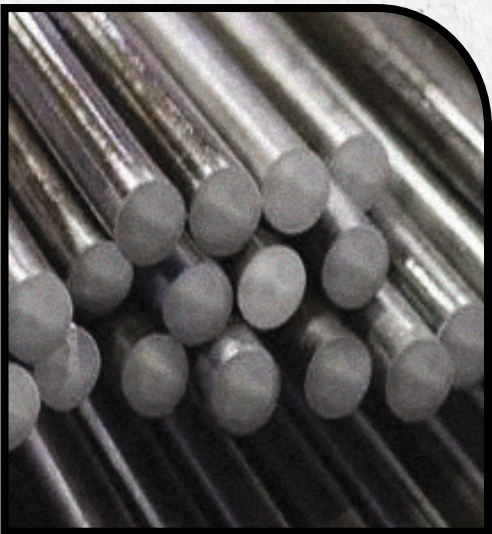
DIE & TOOL STEEL



H 11



H 13



OHNS



M 2



P 20



CW 1



DIN 1.2714



D3 1.2080



D2 1.2379



## FLATES & SQUARES



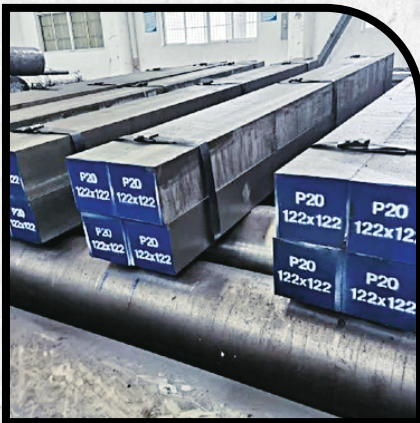
D2 1.2379



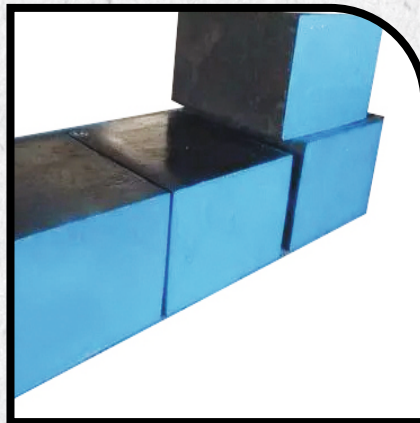
## HCHCR D3



EN 8



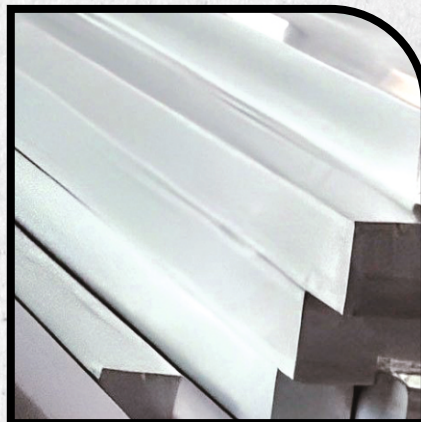
**P20 1.2311**



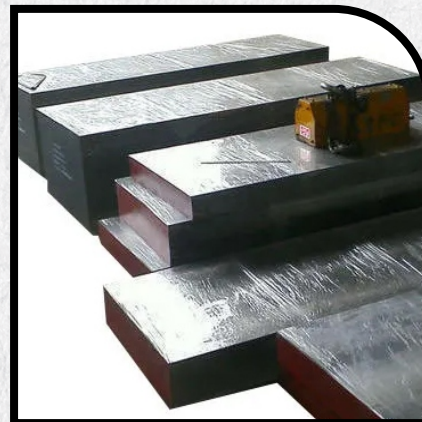
DB6 1.2714



H 13



OHNS



## CW 1

## PLATES



# EN 19



C 45



# CHEMICAL COMPOSITION

## CARBON STEEL

GRADE	C(%)	Si(%)	Mn(%)	P(%)	S(%)	Cr(%)	Mo(%)	Ni(%)	Vi(%)	W(%)	OTHER ELEMENTS
ASTMA 36	0.25–0.29	0.15–0.40	0.80–1.03	≤ 0.040	≤ 0.050	—	—	≤ 0.20	—	—	—
20Mn2	0.17–0.24	0.17–0.37	1.40–1.80	≤ 0.035	≤ 0.035	≤ 0.030	—	≤ 0.30	—	—	Cu ≤ 0.25
C45	0.42–0.50	0.10–0.40	0.50–0.80	≤ 0.030	≤ 0.035	≤ 0.040	≤ 0.10	≤ 0.40	—	—	—
ASTMSA 105	0.35–0.45	≤ 0.40	0.60–1.20	≤ 0.040	≤ 0.050	—	—	—	—	—	—
C20	0.17–0.23	—	0.30–0.60	—	—	—	—	—	—	—	—
C50	0.47–0.55	0–0.40	0.42–0.90	≤ 0.045	≤ 0.045	≤ 0.40	≤ 0.10	≤ 0.40	—	—	—
EN9	0.50–0.60	0.10–0.40	0.50–0.90	≤ 0.05	≤ 0.05	≤ 0.25	—	—	—	—	—
EN8	0.35–0.45	0.10–0.35	0.50–0.80	≤ 0.035	≤ 0.035	—	—	—	—	—	—
IS 2062	≤ 0.23	0.15–0.35	0.30–0.65	≤ 0.045	≤ 0.045	—	—	—	—	—	—
S355J2G3	≤ 0.23	≤ 0.55	≤ 1.60	≤ 0.025	≤ 0.025	≤ 0.55	—	—	—	—	—
SAE 1018	0.15–0.20	≤ 0.30	0.60–0.90	≤ 0.040	≤ 0.050	≤ 0.15	≤ 0.06	≤ 0.20	≤ 0.01	—	—
ST52.3	0.22–0.24	≤ 0.05	≤ 1.50	≤ 0.025	≤ 0.025	—	—	—	—	—	—

## ALLOY STEELS

GRADE	C(%)	Si(%)	Mn(%)	P(%)	S(%)	Cr(%)	Mo(%)	Ni(%)	Vi(%)	W(%)	OTHER ELEMENTS
EN 36C	0.12–0.18	0.10–0.35	0.40–0.70	≤ 0.035	≤ 0.035	0.40–1.00	≤ 0.10	3.00–3.75	≤ 0.05	—	—
EN 353	0.15–0.25	0.10–0.35	0.60–0.90	≤ 0.035	≤ 0.035	0.80–1.20	0.15–0.25	1.00–1.40	—	—	—
EN 31	0.90–1.20	0.10–0.35	0.30–0.75	≤ 0.035	≤ 0.035	1.00–1.60	—	—	—	—	—
EN 24	0.36–0.44	0.10–0.35	0.45–0.70	≤ 0.035	≤ 0.035	0.90–1.40	0.20–0.35	1.30–1.80	—	—	—
EN 47	0.45–0.55	≤ 0.80	0.50–0.80	≤ 0.040	≤ 0.050	0.90–1.20	0.05–0.25	—	0.2	—	—
EN 41B	0.35–0.45	0.10–0.45	≤ 0.65	≤ 0.035	≤ 0.035	0.90–1.20	0.15–0.25	—	—	—	Al: 0.90–1.30
SAE 4140	0.38–0.43	0.15–0.35	0.75–1.00	≤ 0.035	≤ 0.040	0.80–1.10	0.15–0.25	≤ 0.25	—	≤ 0.10	Cu ≤ 0.35
SAE 52100	0.98–1.10	0.15–0.30	0.25–0.45	≤ 0.025	≤ 0.025	1.30–1.60	—	—	—	—	—
SAE 8620	0.17–0.23	0.15–0.35	0.70–0.90	≤ 0.035	≤ 0.035	0.40–0.60	0.15–0.25	0.40–0.70	—	—	—
EN19	0.36–0.44	0.10–0.40	0.60–0.90	≤ 0.025	≤ 0.035	0.90–1.20	0.15–0.35	≤ 0.30	—	—	—
42CrMo4	0.38–0.45	≤ 0.40	0.60–0.90	≤ 0.025	≤ 0.035	0.90–1.20	0.15–0.30	—	—	—	—
20MnCr5	0.14–0.21	0.10–0.40	0.90–1.20	≤ 0.030	≤ 0.030	≤ 1.50	—	—	—	—	—

## DIE & TOOL STEEL

GRADE	C(%)	Si(%)	Mn(%)	P(%)	S(%)	Cr(%)	Mo(%)	Ni(%)	Vi(%)	W(%)	OTHER ELEMENTS
H11	0.33–0.41	0.80–1.20	0.30–0.50	≤ 0.030	≤ 0.030	4.75–5.50	1.10–1.60	—	0.30–0.50	—	—
H13	0.35–0.42	0.90–1.20	0.30–0.50	≤ 0.030	≤ 0.030	4.80–5.50	1.20–1.50	—	0.85–1.15	—	—
OHNS	0.90–1.10	0.15–0.35	1.00–1.20	≤ 0.030	≤ 0.030	0.50–1.00	—	—	1.75–2.20	—	—
M2	0.85–0.95	0.20–0.45	0.15–0.40	≤ 0.030	≤ 0.030	3.75–4.50	4.50–5.50	—	—	5.50–6.75	Co:0.40–1.00
P20	0.28–0.40	0.50–0.65	0.60–1.00	≤ 0.030	≤ 0.030	1.40–2.00	0.30–0.55	0.30–0.60	0.07–0.12	—	—
CW1	1.95–2.20*	0.20–0.60*	≤ 0.060*	≤ 0.030*	≤ 0.030*	11.0–13.0*	—	—	—	—	—
DIN 1.2714	0.50–0.60	0.10–0.40	0.65–0.95	≤ 0.030	≤ 0.030	1.00–1.20	0.45–0.55	1.50–1.80	—	—	—
D3 DIN 1.2080	~1.50–1.60*	~0.60–1.20*	≤ 0.60*	≤ 0.030*	≤ 0.030*	11.0–13.0*	≤ 1.20*	—	0.50–1.10*	—	—
D2 DIN 1.2379	~1.50–1.60*	~0.60–1.20*	≤ 0.60*	≤ 0.030*	≤ 0.030*	11.0–13.0*	≤ 1.20*	—	0.50–1.10*	—	—

## PLATES

GRADE	C(%)	Si(%)	Mn(%)	P(%)	S(%)	Cr(%)	Mo(%)	Ni(%)	Vi(%)	W(%)	OTHER ELEMENTS
EN 19	0.36–0.44	0.10–0.40	0.60–0.90	≤ 0.025	≤ 0.035	0.90–1.20	0.15–0.30	≤ 0.30 (trace)	—	—	—
C45	0.42–0.50	0.10–0.40	0.50–0.80	≤ 0.030	≤ 0.035	≤ 0.40 (optional)	≤ 0.10 (optional)	≤ 0.40 (optional)	—	—	—



# INDUSTRIES WE EMPOWER

## “EMPOWERING INDUSTRIES WITH PERFORMANCE - DRIVEN STEEL SOLUTIONS”

- Tooling & Die Manufacturing
- Plastic Molding & Packaging
- Machinery & Industrial Equipment
- General Fabrication & Infrastructure
- Automotive & Aerospace
- Oil & Gas
- Power & Energy
- Defense & Heavy Engineering

### TOOL & DIE STEEL

Automotive & Aerospace  
Tooling and Die Manufacturing  
Defense Engineering  
Metal Forming & Fabrication  
Industrial Equipment

### FORGING STEEL

Automotive & Heavy Engineering  
Oilfield Equipment  
Power & Energy  
Defense & Aerospace Components

### CARBON STEEL

Construction & Infrastructure  
Agricultural Equipment  
General Fabrication & Engineering  
Machine Building

### ALLOY & SPECIAL STEEL

Automotive & Off-Highway Vehicles  
Oil & Gas Exploration  
Power Generation  
Railways & Heavy Machinery  
Marine & Defense

### PLASTIC MOULD STEEL

Plastic Injection Molding  
Consumer Electronics  
Medical Devices  
Packaging & Home Appliances

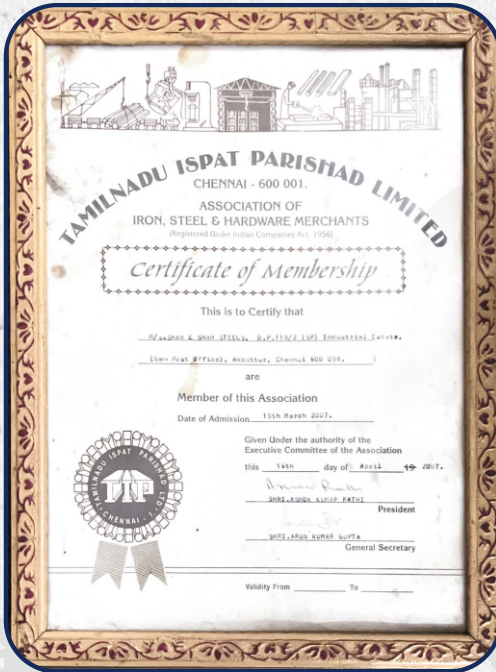
## VALUE-ADDED SERVICES

- Precision cutting, machining, and pre-hardened supplies
- Heat treatment and surface finishing as per specification
- Customized grades and sizes on demand
- Material testing with mill certificates
- Prompt delivery through strong logistics and stock support





# CERTIFICATES



# CONTACT DETAILS



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