



PRIMUS BRIGHT
STEELS



Our Legacy Of Excellence

Forging trust and quality for decades,
Primus Bright Steels stands tall with
precision, performance, and progress.

www.pbsteels.com



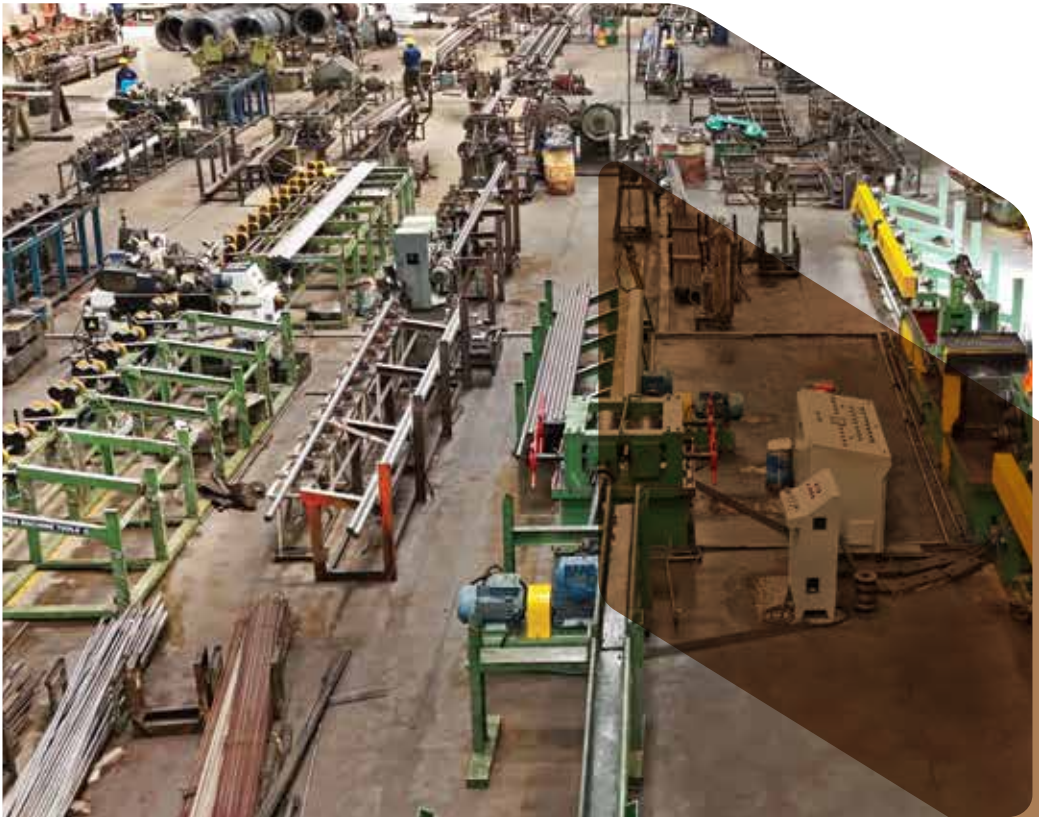
INTRODUCTION

At Primus Bright Steels, being a pioneer isn't just about leading—it's about redefining industry standards. Every wire and bar we craft forms the foundation of excellence, engineered for precision and durability. For us, quality isn't an option—it's the only way forward.

ABOUT US

Primus Bright Steels is an ISO 9000-certified company specializing in Bright Steel Wires & Bars, peeling & grinding for the automotive and engineering industries.

With state-of-the-art technology and a skilled workforce, we deliver precision, durability, and top-tier quality. Our services go beyond cold bar drawing to include cold finishing, straightening, polishing, , non- destructive testing, peeling and grinding. We adapt to evolving industry needs, working closely with the vendors of leading OEMs like Maruti, Hero, Honda, Bajaj, TVS, TATA, John Deere, Mercedes, Volkswagen, Gabriel and Duroshox. Customer feedback shapes our innovation, ensuring we meet both current and future demands. At Primus, quality and excellence are at the heart of everything we do.



Mission Statement

At Primus Bright Steels, our mission is to set new benchmarks in the Bright Steels manufacturing industry by delivering high-quality, precision-engineered products through cutting-edge technology and unwavering commitment to excellence. We strive to exceed customer expectations by fostering innovation, reliability, and trust, ensuring seamless integration into the global automotive and engineering supply chains.

Vision Statement

We envision Primus Bright Steels as a global leader in steel manufacturing, recognized for our technological advancements, sustainable practices, and customer-centric approach. Our goal is to continuously evolve, adapt, and expand our capabilities to drive industry transformation while maintaining the highest standards of quality, transparency, and excellence.



PRODUCTS

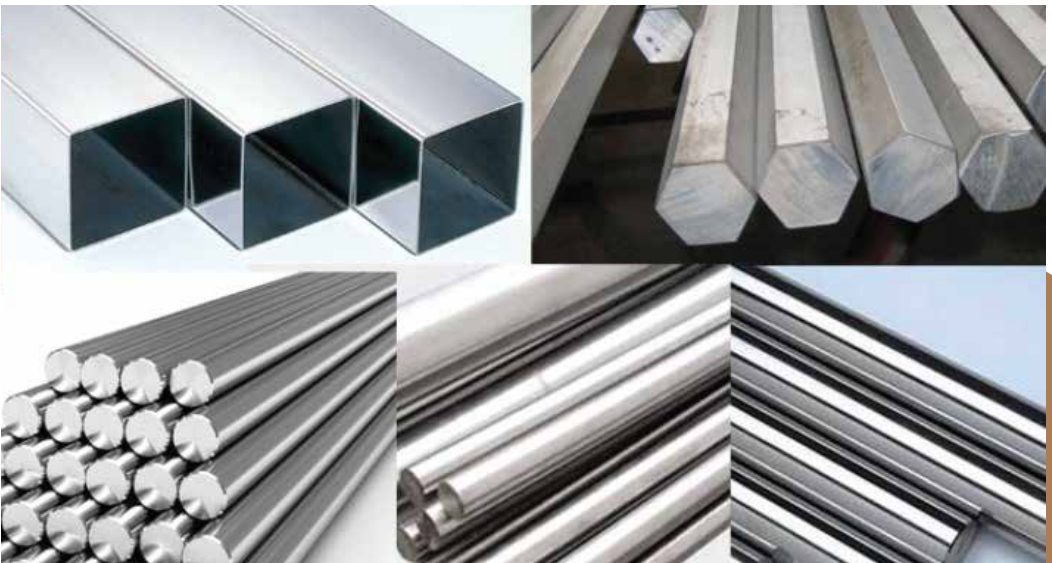
Bright Bars

Hot rolled bars that have large tolerances in terms of diameter, ovality, and length are cold drawn by passing them through dies, converting them into Bars. Cold Drawn Bright Bars can be provided with much closer tolerances and improved mechanical properties.

Bright Steel Bars are predominantly used in:

- Pump shafts • Valves
- Fasteners
- Machine tools
- Pins • Hinges
- Surgical instruments
- Auto-mobile and Engineering Industries
- Shocker Rods

The Automobile and engineering Industry specifically draws a massive demand for Bright Bars, as many of the parts of an automobile are made up of special grades of Bright Bars.



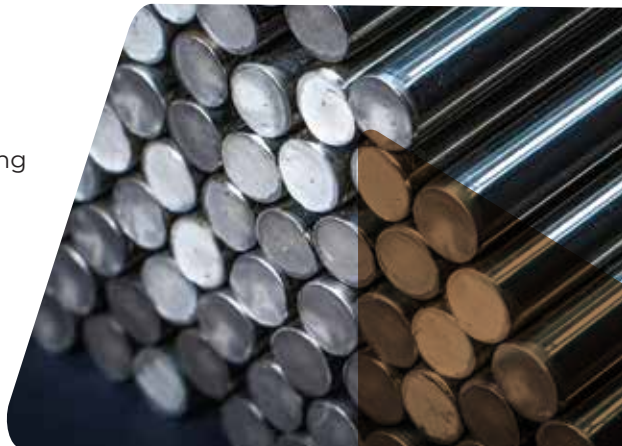
Ground Bars

Ground Bars are manufactured through a process called grinding, where a layer of the outer surface is removed using a centerless grinder. This process produces a silvery bright surface, resulting in a smooth, defect-free finish. With our expertise, we maintain a close level of tolerance, enhancing productivity for our customers.



Peeled Bar

Peeled Bars are produced by removing the "skin" of the bar using a special tool. After peeling, we conduct straightening and thorough inspections to ensure that no defects reach our clients. At Primus Bright Steels, we are equipped with a multi-tool Peeling Machine that is fully automatic, capable of providing accuracies in H9 and H8 tolerances.

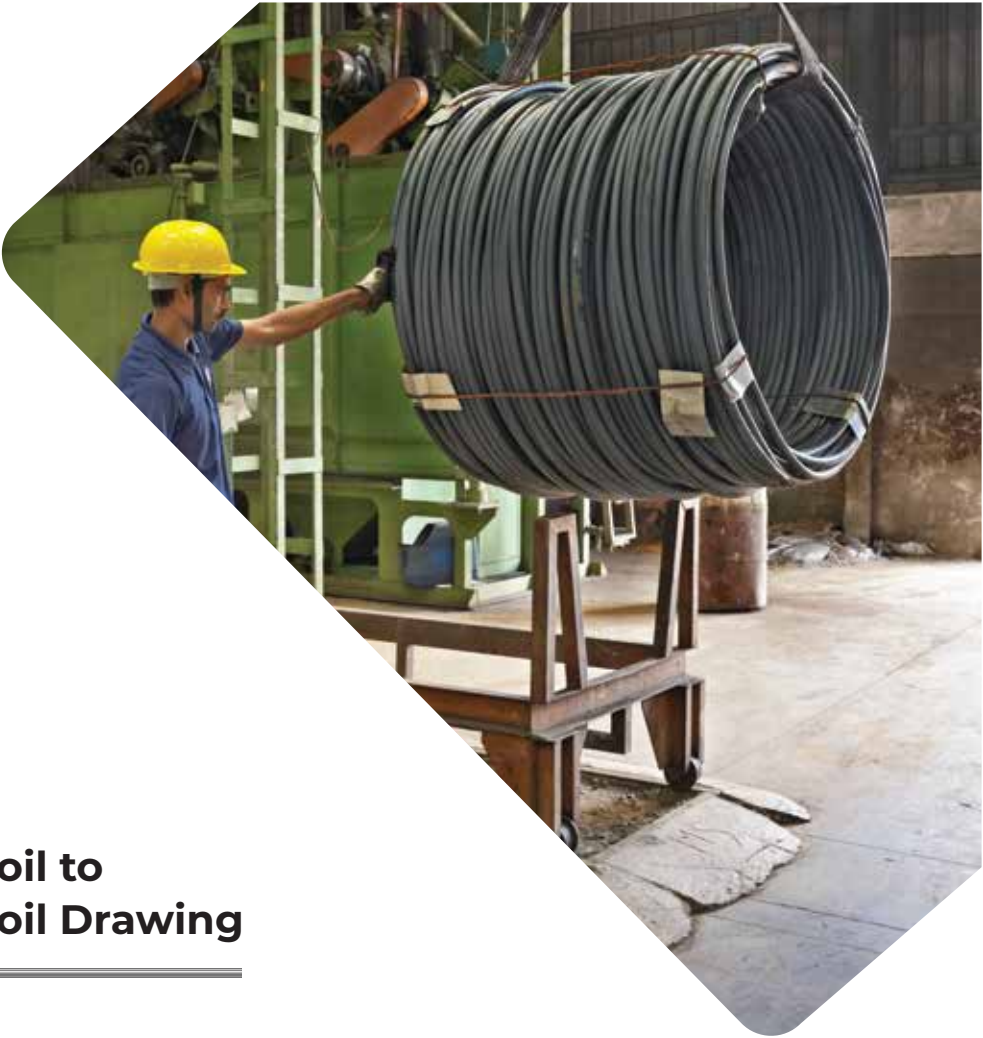


Bright Steel Wires

Primus Bright Steels, your trusted partner for high-quality steel wire products. At Primus Bright Steels, we specialize in wire drawing-a precise metalworking process that reduces the cross-section of a wire by pulling it through one or a series of drawing dies. This method is vital across multiple industries, from electrical wiring and cables to tension-loaded structural components and springs.

Unlike extrusion, where material is pushed through the die, wire drawing involves pulling the wire, ensuring greater control and precision. Choose Primus Bright Steels for premium-quality steel wires, tailored to meet your specific needs.





Coil to Coil Drawing

At Primus Bright Steels, we utilize the Coil-to-Coil Drawing process to deliver cold-drawn steel products with precision and efficiency. A pointed or reduced end of the bar or coil, which is smaller than the die opening, is passed through the die and gripped by the drawing machine with consistency and strength. The machine then pulls the remaining section of the bar or coil through the die. As the material moves through the die, its cross-section is reduced, the profile is shaped, and the length of the product is increased. Our Coil-to-Coil Drawing process enhances the quality of the final product, ensuring superior precision and durability, meeting the highest industry standards. At Primus Bright Steels, we are committed to delivering excellence in every wire we produce.

Coil to Bar Drawing

At Primus Bright Steels, we offer a specialized Coil-to-Bar Drawing facility, enabling us to convert steel coils into straight bright bars, tailored to the precise length requirements of our customers. In this process, wire rods are straightened and transformed into bright bars. Beyond this, we also provide custom surface finish options, ensuring the final product meets your exact specifications. Our Coil-to-Bar Drawing service is designed to deliver flexibility, precision, and quality, making Primus Bright Steels your trusted partner for all your cut-to-length bar needs.

Types

- CHQ Wire • General Engineering Wire • Hard Bright Wire
- High Carbon Spring Steel Wire • Half Hard Bright Wire

Applications

- Pump Shafts • Hydraulic & Pneumatic Piston Shafts
- Cylinder Shafts • Bearing Sized Bars • Chrome Plating Quality Bars
- Valve Shafts • Extrusion Bar • Cold & warm Forging



Stabiliser Bar

At Primus Bright Steels, we offer premium Pump Shaft Quality (PSQ) Bars, engineered for high precision and exceptional finish. Known for superior tolerance and straightness compared to standard round bars, our PSQ Bars are ideal for pump, cylinder, and piston shafts. Available in a range of sizes and specifications, they meet the strictest performance requirements, ensuring top-quality results for your most demanding applications.

In addition, our specialized Coil-to-Bar Drawing facility enables us to convert steel coils into straight bright bars, precisely tailored to your required lengths. This service provides flexibility, precision, and exceptional quality, making Primus Bright Steels your trusted partner for all cut-to-length bar needs.



Piston Rods

At Primus Bright Steels, our Piston Rods are renowned for their exceptional quality and refined designs, tailored to meet the specific needs of our customers.

Crafted with precision, our piston rod quality bars are designed for durability and versatility, making them ideal for a wide range of engines and manufacturing applications. Whether for industrial or automotive use, we provide customized solutions to ensure optimal performance in every application. Trust Primus Bright Steel for piston rods that deliver reliability and precision, every time.



QUALITY ASSURANCE AT PRIMUS BRIGHT STEELS

At Primus Bright Steels, we are committed to delivering superior quality in every product. We continuously refine our practices to meet the highest industry standards, ensuring that every item we deliver meets your expectations of perfection.

Here's how we ensure the highest level of quality assurance:

- **Documented Procedures and Verification:**

We maintain well-documented and verified work processes, with streamlined checkpoints and verification levels to ensure strict adherence at every stage of production.

- **State-of-the-Art Testing Facilities:**

Our in-house testing laboratories are equipped with advanced technology, operated by professionally qualified personnel, ensuring precise and accurate testing of all materials and products.

- **Comprehensive Training Programs:**

We provide extensive training supported by detailed manuals for both new personnel and the introduction of new machinery or processes, ensuring all team members are well-versed and proficient.

- **Time-Bound Quality Checks:**

Every step of our production process is subject to time-bound checks, helping us meet deadlines and avoid any potential disruptions, ensuring a smooth and efficient workflow.

- **Certification and Accreditation:**

Primus Bright Steel is certified with ISO standards, ensuring that our processes and products meet international benchmarks for quality, safety, and reliability.



Bright Steel Bars:

• Shot Blast:

- Air less Roller Type Shot Blast, Round Bar, Hexagonal, off line Wire Rod Shot Blasting
- Wire Rod
- Square Flat or any type of shape, High Surface finish
- Environment friendly system

• Cold Drawing

SHAPE	RANGE
Round	7mm to 70 mm
Hexagonal	10mm to 70mm
Square	10mm to 60mm
Flat width	10mm to 60mm
Flat thickness	6mm to 40mm

• Production Capacity

Cold drawing	1100mt / month
Ground Bar	800mt / month
Peeled Bar	800mt / month

• Peeling & Grinding

Size Range	20mm to 83mm
Tolerance	H9,H8

• Center less Grinding

Ground Bar Length	6 Mt long
Size control	h11,h9,h8,h7 tolerance
Lobbing	less than 0.5mm
Size range	10mm to 100mm
Surface Finish	RA 0.20 UM/ 12 RMS MAX



• Key Control

Size Range	70 mm (1/4 – 4 inch)
Drawing Bar Length	1 m up to 6 m
Ovality	Half of the diameter tolerance
Straightness	0.25mm to 1mm/mtr
Surface Finish	0.2 um/ 12 RMS max
Chamfering	Available in 30, 45, and 60 degree through fully automatic both-end chamfering machine
Crack test	Eddy Current Testing through Circograph and Magnetic Particle Inspection (MPI)
Ultrasonic Test	100% tested through Digital Ultrasonic Flaw Detector, as per ASTM A-388, EN 10308 (class 1 to 4), API
6A/ISO10423	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 + 0.5 inch)
Packaging	Packaging is done using a variety of protective materials, & distance rings, and then placed in the strong plywood boxes to ensure safety of material during transportation.



Steel Grade Categories:

Carbon Steel: Low and Medium Carbon

Alloy Steel: Low Carbon and Medium Carbon Alloy Steel

Free Cutting Steel • Boron Steel

Spring Steel • Manganese Steel

Chrome Manganese Steel • Chrome Moly Nickel Steel

Moly Steel • Sulphur Steel • Micro-Alloyed Steel

Why Choose Primus Bright Steels: Our Unique Selling Propositions (USPs)

At Primus Bright Steels, we pride ourselves on offering unmatched value and benefits to our customers. Here are the key reasons why we stand out:

1. Reduced Metal Wastage for Higher Productivity:

Our efficient processes minimize metal wastage, resulting in higher productivity and superior quality products.

2. Extensive Range of Sizes and Grades:

We maintain a well-stocked and diverse range of bars, available in various sizes and grades, ensuring we meet the specific needs of our customers.

3. Consistent and Timely Supply:

With a vast inventory of raw materials and a wide range of finished products always on hand, we guarantee steady and on-time supply, ensuring your production never misses a beat.

Choose Primus Bright Steel for reliability, quality, and superior service.





Contact US:

At Primus Bright Steels, we are here to assist you with all your inquiries and product needs. Reach out to us for personalized service, and let our team help you find the right solutions for your business.

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