

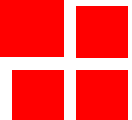


# BROCHURE 2023

INGOTS | ROLLED BARS | CONTINUOUS CAST BILLETS / BLOOMS

Bringing 35 years of excellence of  
steel manufacturing

| [WWW.KSL.IN](http://WWW.KSL.IN)





**AMIT KUMAR JAIN, CEO**

Thank you for your interest and for taking the time to learn more about our business. We hope you will see how committed we are to our customers and the safety and craftsmanship standards we uphold.

The foundation of **Kesri Alloys** is honesty, mutual respect, and commitment. We continually reinvest in our facilities and employees as a company. In our business, innovation and continuous improvement are core values and taken as a way of life in our operations. We are an experienced, enthusiastic and engaged team with strong management, thanks to our dedication, to providing our customers with components and solutions of the highest possible quality.

Customer satisfaction is a top priority for us at **Kesri Alloys**. We are able to quickly adapt to the shifting requirements of our customers because we are flexible and adaptable to your needs.

## **FOR ENQUIRIES :**

info@ksl.in | www.ksl.in | +91 981 0112 977





# LOOKING FORWARD TO SUSTAINABLE & MUTUALLY REWARDING RELATIONS

An IBR Approved and ISO Certified manufacturer of Carbon Steel, Alloy Steel and Stainless Steel – Ingots, Continuous Cast Billets/Blooms and Rolled Bars for industries around the World.

**Kesri Alloys** is client oriented, imaginative and esteem driven organization, who manufactures, processes and delivers Carbon steel, Alloy steel and Stainless steel – Ingots, Continuous Cast Billets/Blooms, Rolled Bars, Square Bars and Flat Bars to their Valuable clients around the world.

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**Kesri Alloys** is well equipped with ultra modern steel making technologies.

## MANUFACTURING INFRASTRUCTURE

We build relationships that will support the next stage of your company's expansion. By identifying the individuals and platforms where interests meet, we accomplish this.

### 1. Radiation Test

Every Incoming and Outgoing material is thoroughly tested and ensured that it should be 100% radiation free.

### 2. Melting Furnace

Two Electric Melting Furnaces with latest temperature measuring instruments.

### 3. Argon Purging Systems (APS)

We have APS which is used for purging Argon in Electric melting furnaces and ladles. It helps to reduce metallic inclusions to improve the overall purity of the steel.

### 4. Ladle Refining Furnace (LRF)

LRF facilitates better refining, homogenizing, desulfurizing, and inclusion floatation for better purity in liquid steel in all grades.

### 5. Vacuum Degassing System

During the steel melting process, many unwanted gases are dissolved in the liquid. This can result in numerous defects and imperfections. Vacuum degassing helps to eliminate any of the dissolved gases which will improve ductility of steel.

### 6. Ingot Casting

After Refining, Ingots are bottom poured through ladle in variety of cast iron ingot moulds which are available in more than 20 different sizes and shapes.

### 7. Continuous Casting Machine (CCM)

PLC operated twin Strand Billets / Blooms Continuous Caster with all latest technology.

### 8. Electric Heat Treatment Furnace

PID-controlled electric heat treatment increases the uniformity and excellent mechanical properties of steel, improving manufacturing objectives and product performance like machining, formability, ductility, and other desirable characteristics.

### 9. Inspection And Dispatch

Every product manufactured is checked for different parameter at our inspection area like size, random grade checking, physical defects and their rectification etc before shifting to dispatch area. Our various quality check instruments ensure 100% product quality.

6000 Sqft. area is available for the storage of Ingots, Rolled Bars and Continuous Cast Billets / Blooms where we retest and ensure 100% radiation free material is dispatched.

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# TESTING TECHNOLOGY

## Chemical Testing

- Optical Emission Spectrometer with variety of Standard Samples
- Simultaneous ONH Gas analyzer (LECO) to detect low levels of Oxygen, Nitrogen and Hydrogen
- PMI Mobile handheld Spectrometer
- Fully equipped wet analysis laboratory
- Sample cutting and polishing machine

## Mechanical Testing

- Tensile Strength
- Hardness (HRC, HV, HB)
- Elongation
- Reduction
- Proof Strength
- Notched Bar Impact Testing
- Jominy Hardenability Apparatus

## Non Destructive Testing

- Digital Ultrasonic Flaw Detector
- Dye Penetrant Test

## Radiation Servo Meter

Radiation Servo Meters are portable radiation detection and measurement instrument for radioactive contamination used to identify the cobalt isotopes

## Metallographic Tests

- Microstructure
- Defect Depth
- Internal Structure
- Inclusion Rating

## Dimensional Inspection

All Instruments and gauges are available.

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# INGOTS

Since we first started making steel, it is almost two decades now, **Kesri Alloys** has been making carbon steel, alloy steel and stainless steel ingots. Over time, we've almost certainly honed our skills.

**Kesri Alloys** supplies carbon steel, alloy steel and stainless steel ingots that have been approved by the IBR for use in open die forging, ring rolling, upsetting and rolling processes. Forging quality carbon steel, alloy steel and stainless steel ingots are our area of expertise.

We offer variety of ingots in Square, Fluted and Round Shape weighing from **850 KG to 18000 KG**.

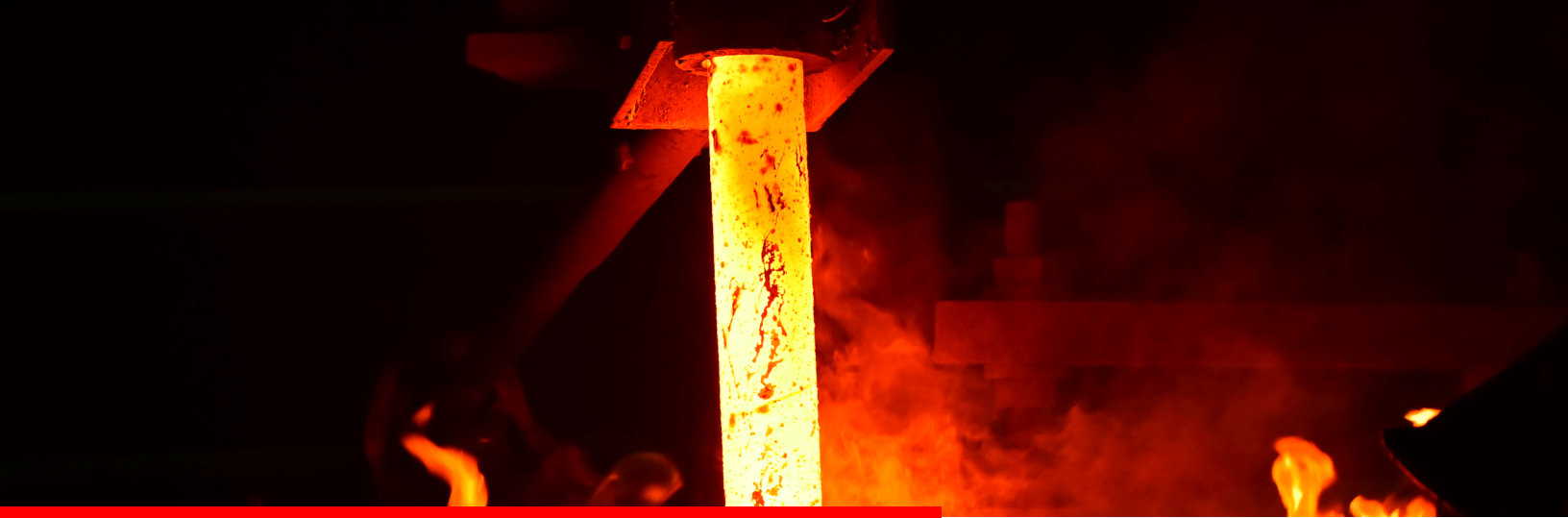
## Supply Conditions

- Ingots are available in all grades of carbon steel, alloy steel and stainless steel
- Ingots are suitable for rolling, ring rolling, forging and up-setting
- Ingots are free from surface defects & cracks
- Ingots are marked with grade, size & heat number
- Ingots are suitable for sawing in cold condition
- Ingots are available in spot ground or fully ground condition
- Ingots are available in Heat Treated – annealed condition
- Ingots are free from radioactive elements, mercury & lead contamination

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# ROLLED BARS

**Kesri Alloys** offers hot rolled bars in carbon steel, alloy steel and stainless steel which are suitable for forging, upsetting, re-rolling and ring rolling. They can be extensively used in machined components, pump shafts, valves, daily equipment, surgical and medical parts, gears, bearings, thread bars etc.

## SPECIFICATIONS

Round Bars Sizes	Square Bars Sizes
16 mm to 180 mm	20 mm to 90 mm
Flat Bars Sizes	
Width : 25 mm to 250 mm	Thickness : 6 mm to 40 mm

### Supply Conditions

- Rolled Bars are available in all grades of carbon steel, alloy steel and stainless steel
- Rolled Bars are available in as hot rolled (black) condition only
- Rolled Bars are suitable for sawing or shearing in cold condition
- Rolled Bars have smooth ends (without burrs) & no sharp edges
- Rolled Bars are suitable for ring rolling, forging and up-setting
- Rolled Bars are 100 % ultrasonically tested in accordance with ASTM standard
- Rolled Bars are marked with heat number, grade and size
- Rolled Bars are also supplied in straightened condition

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# CONTINUOUS CAST BILLETS / BLOOMS

Like cast Ingots, Billets and Blooms also are custom-made in terms of their dimensions, metallurgy and item weight. Kesri Alloys is popular for finest quality of these carbon steel, alloy steel and stainless steel Billets / Blooms and manufactures for a lot of prestigious industries which can be used for forging, ring rolling, upsetting and rolling into bars, rods and sections for many engineering industries.

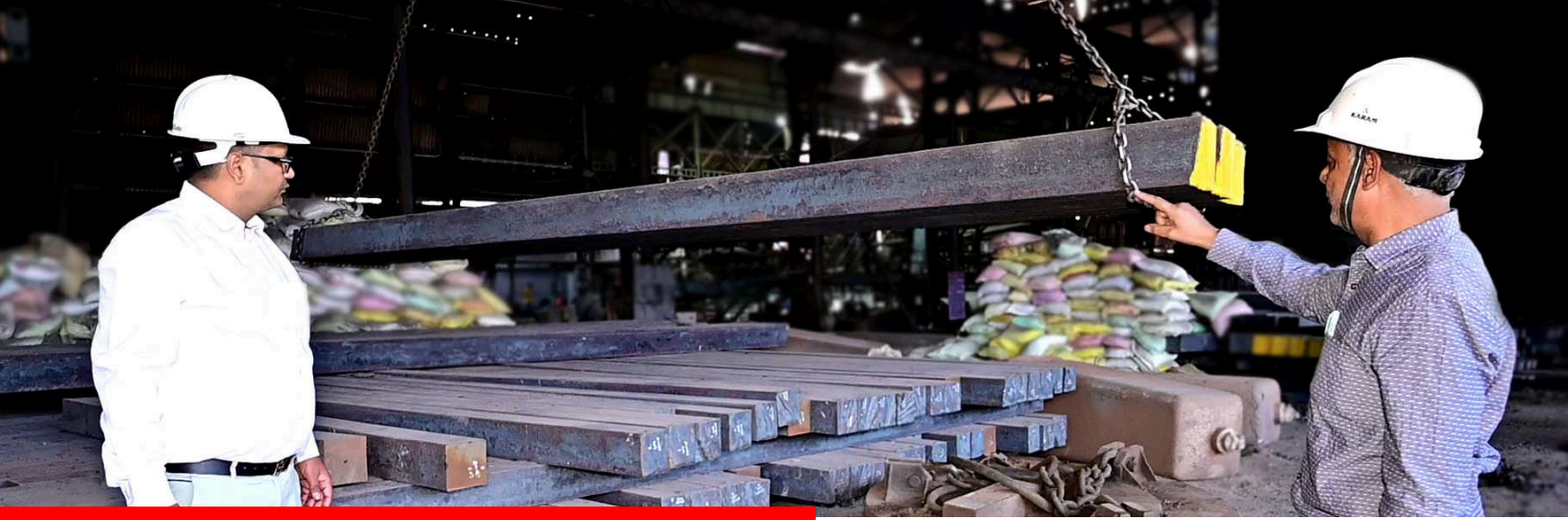
## SPECIFICATIONS

Sizes	Billets / Blooms Weight (Kgs/mtr)
100x100 MM	75
125X125 MM	120
130X130 MM	130
160X160 MM	195
200X200 MM	306
250x250 MM	480

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# INGOTS, ROLLED BARS & CONTINUOUS CAST BILLETS/BLOOMS GRADES

## Stainless Steel Grades

- AISI 301, 302, 303, 304, 304L, 310, 316, 316L, 317, 321, 347...
- AISI 410, 416, 420, 430, 431...

## Carbon Steel Grades

- En8A, En8B, En8C, En8D, En9, C-45, C-50...
- CL I, CL II, CL III, CL IV, CL V, CL VI....
- SA 105, LF 2...
- AISI 1008, 1010, 1015, 1018, 1020, 1025, 1030, 1040...

## Alloy Steel Grades

- LF 3, LF 4...
- En15A, En15B, LF2, En201...
- 16MnCr5, 20 MnCr5, En18, En31, AISI 52100...
- AISI 8620, 4130, 4140, 4150...
- En47, En353, En354...
- F-5, F-9, F-11, F-12, F-22...

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## INDUSTRIES SERVED

- ✓ Steel Plants
- ✓ Power Sector
- ✓ Oil Field Industry
- ✓ Cement Industry
- ✓ Heavy Engineering Industry
- ✓ Crushing Industry
- ✓ Shipping Industry
- ✓ Automobile Industry
- ✓ Earth Moving Industry
- ✓ Mining & Mineral Industry



### CORPORATE OFFICE

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### MANUFACTURING UNIT

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