



Unmatched **Quality**, Peerless **Value**

Presenting Vedanta Aluminium

**PRODUCT
BROCHURE**





ABOUT US

VEDANTA ALUMINIUM

Based in India, Vedanta Aluminium, a business of Vedanta Limited, is one of the world's top manufacturers of aluminium, the '**metal of the future**'.

With an installed capacity of **2.3 million tonnes** per annum (MTPA), we are catering to the aluminium requirements of discerning customers in more than **50 countries** of Americas, Europe, Asia & Oceania, Middle East and Africa.



CATERING
TO MORE THAN
50
COUNTRIES

HELPING CUSTOMERS **SHARPEN** THEIR COMPETITIVE EDGE

The most discerning of customers world-wide have chosen us for the quality of our products, global expertise in aluminium and excellence in customer services. We take great pride in providing our customers a unique competitive edge with one of the largest ranges of aluminium products, expertly tailormade for their evolving needs.



UNPARALLELED GLOBAL EXPERTISE

With state-of-the-art assets, deep talent pool and ecosystem of global experts, our expertise in aluminium is sought-after world-wide.

TECHNOLOGY

Extensive deployment of best-in-class technology, innovation and digitalisation enables us to showcase high operational excellence and sustainable performance.

RESEARCH & DEVELOPMENT

We work with customers to co-create innovative product solutions customised to their needs, thanks to our robust R&D capabilities and a vibrant innovation hub.

CUSTOMER TECHNICAL SERVICES (CTS)

Our vibrant CTS cell works with a bevy of experts to help customers with new product development, global expertise in technical services, market development and more.

STRONG SUPPLY CHAIN

With access to India's abundant mineral reserves, Vedanta Aluminium's robust value chain and logistics network guarantees our customers 100% supply chain reliability.

SUSTAINABLE BUSINESS PRACTICES

Vedanta Aluminium ranked 4th in the Dow Jones Sustainability Index (DJSI) world rankings for the aluminium industry in 2021, a testimony to our sustainable business practices.



ABOUT US

WORLD CLASS ASSETS IN INDIA

**Alumina Refinery,
Vedanta Ltd.**
Lanjigarh, Odisha
2 Million Tonnes Per Annum

**Bharat Aluminium
Company Ltd. (BALCO)**
Korba, Chhattisgarh
0.575 Million Tonnes Per Annum

**Aluminium Smelter,
Vedanta Ltd.**
Jharsuguda, Odisha
1.75 Million Tonnes Per Annum

SUPPLYING TO OVER 50 COUNTRIES GLOBALLY

AMERICAS

Brazil
Canada
Costa Rica
Ecuador
Honduras
Mexico
US

EUROPE

Austria
Belgium
Bosnia
Bulgaria
Croatia
Finland
France
Germany
Greece
Italy
Netherlands
Poland
Portugal
Slovakia
Slovenia
Spain
Sweden
UK

MIDDLE EAST & AFRICA

Bahrain
Egypt
Israel
Kingdom of Saudi Arabia
Oman
Qatar
South Africa
Turkey
UAE
Rest of Africa

ASIA

Australia
Bangladesh
India
Indonesia
Japan
Malaysia
Nepal
New Zealand
Philippines
South Korea
Sri Lanka
Taiwan
Thailand
Vietnam

EXPANSIVE PORT & DEPOT NETWORK

PORTS

Visakhapatnam
Kolkata
JNPT
Haldia
Paradip
Ennore
Gangavaram
Paradip

→ EXIM

→ Breakbulk

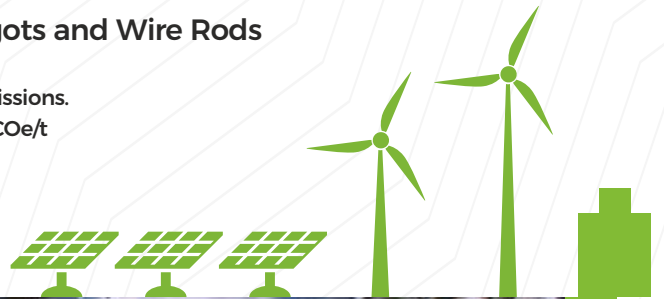
DEPOTS

Chennai
Secundarabad
Bangalore
Vadodara
Pune
Kolkata
Jaipur
Faridabad
Raipur

Restora Low Carbon Aluminium

- First from India to launch low carbon aluminium brand 'Restora' to enable customers to meet their sustainability goals
- **Restora**, low-carbon aluminium, is manufactured using renewable energy
- GHG emissions intensity* range for Restora is 2.00 – 2.50 tCO₂e/t
- **RestoraULTRA** ultra-low carbon aluminium, is manufactured with aluminium recovered from dross (a by-product of aluminium smelting process)
- GHG emissions intensity range for Restora Ultra is 0.7 – 0.8 tCO₂e/t
- Both products are available in the form of Billets, Ingots and Wire Rods

*GHG emissions intensity is measured as the sum of Scope 1 and Scope 2 emissions. The global requirement for aluminium to be considered as 'low carbon' is 4tCO₂e/t (tonnes of CO₂ equivalent per tonne of aluminium produced). Both Restora and Restora Ultra are well below this threshold.




**1ST LOW
CARBON**
ALUMINIUM BRAND
FROM INDIA



OUR PRODUCTS

Billets

Capacity	580 KT
Diameters offering	6", 7", 8", 9", 10" and 12" sizes
Technology	Wagstaff Hot-Top Air Slip Casting System
Homogenizing furnace	Continuous (from Hertwich Engineering) / Batch
Alloy offering	1xxx, 3xxx, 6xxx (Customizable)
Packaging	Packaged in plastic strapped bundles on heat-treated wooden runners (ISPM 15)
 High Speed Billets	Can improve extrusion speed by at least 25%* without compromising on the strength of the extruded profile. These products show significant improvement in process recovery as well as die life. *under test conditions
Application	Extrusion (automobile components, building & construction, aerospace, solar energy)

**LARGEST
BILLET
EXPORTER**

IN INDIAN
SUBCONTINENT
AND SOUTH
EAST ASIA





**LARGEST
EXPORTERS**
OF PRIMARY
FOUNDRY ALLOYS
FROM INDIA

Primary Foundry Alloy

Product	10 kg Ingot 10 kg Cast Bar 22 kg Ingot
Capacity	90 KT 100 KT 20 KT
Technology	Remetal Befesa (Spain) Continuus-Properti (Italy) Remetal Befesa (Spain)
Ingot Dimensions	725mm * 100mm * 75mm 700mm * 80mm * 59mm 740mm * 170mm * 114mm
Alloy Offering	AlSi7(A356.2), AlSi9, AlSi11, LM series (customisable)
Bundling	93 pieces (approx. 1 MT) 107 pieces (approx. 1 MT) 44 pieces (approx. 1 MT)
Packaging	PET Straps / Cross Straps
Application	Automobile sector, Railways, Aerospace, Engineering Castings



Wire Rods

Capacity	560 KT
Rod diameter	7.6 mm, 9.5 mm, 12 mm, 15 mm
Inner diameter	570 mm +/- 10 mm
Outer diameter	1380-1500 mm
Weight per coil	1.8-2.9 tonne
Rod dia tolerance	+/- 0.5 mm
Technology	Southwire (USA) and Continuus-Properzi (Italy)
Alloy offering	AA1370, AA8030, AA8176, 6201, T4, Al59
Packaging	PET Straps / HDPE Covering / heat treated wooden saddle / silicon gel (customized packaging available)
Application	Conductors, Cables, Transformers, Winding Wires, Heat Exchanger Tubes



**WORLD'S
LARGEST
PRODUCER**
OF WIRE-RODS,
EX-CHINA



INDIA'S FIRST
PRIMARY
PRODUCER TO
LAUNCH
AlSi T-INGOT

AlSi T-Ingot

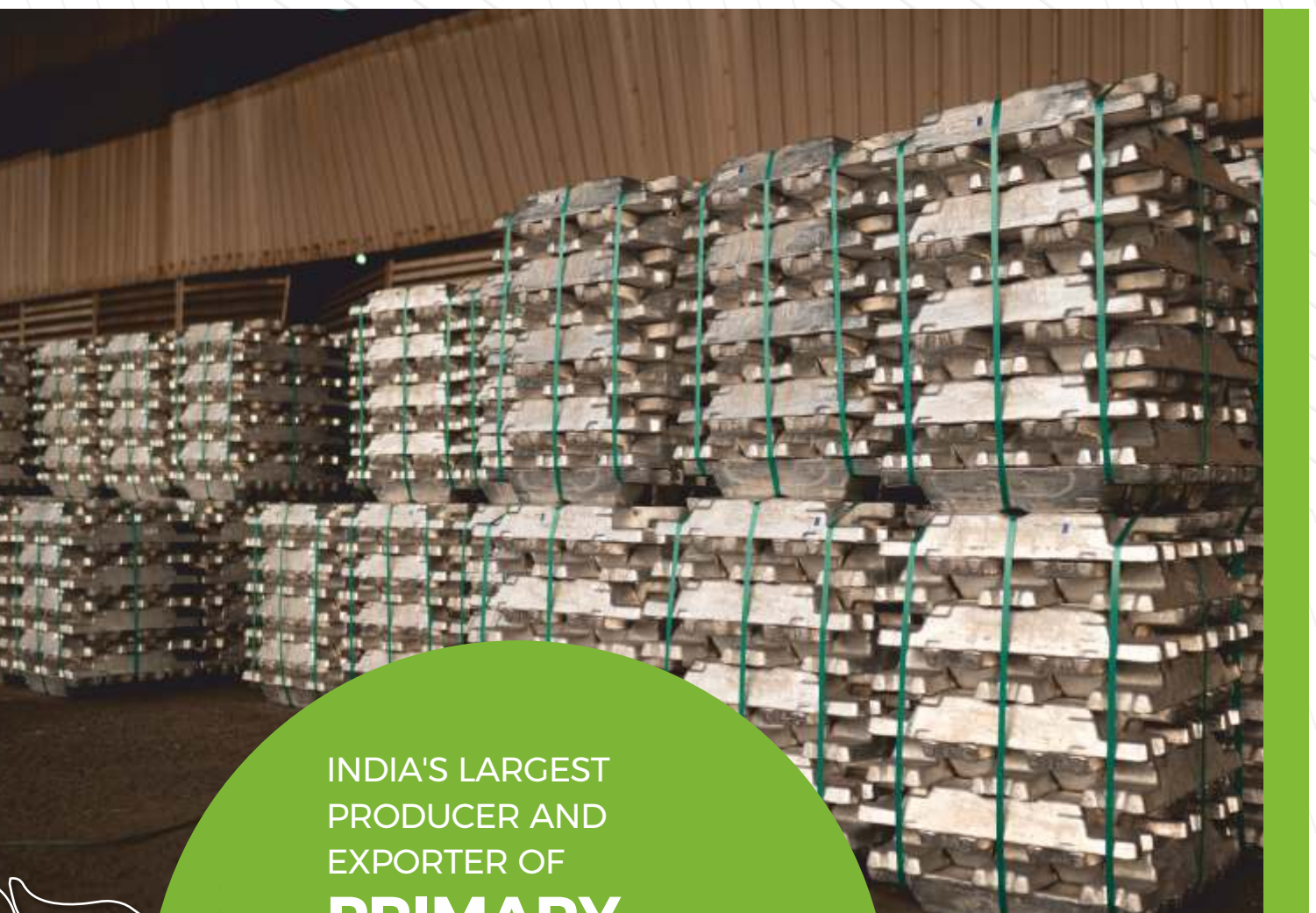
Capacity	90 KT
Dimension	480mm * 845mm 410mm * 845mm
Length	645-1500mm
Alloy offering	P1020, AlSi3
Technology	Epsilon Ingot Casting Technology by Wagstaff (USA), In-line Treatment Facility - SNIF P140 by Pyrotek (USA), CFF (23x23x2, 40 ppi), Auto Cutting Machine from Sermas (France)
Application	Steel industry for galvalume coating



OUR PRODUCTS

Ingot

Weight	22 kg
Capacity	1280 KT
Technology	Remetal Befesa (Spain)
Alloy variant	P1020
Dimension	740mm * 170mm * 114mm
Bundling	44 pieces (approx. 1 MT)
Packaging	PET Straps / Cross Straps



INDIA'S LARGEST
PRODUCER AND
EXPORTER OF
**PRIMARY
INGOTS**





LARGEST
PRODUCER OF
SOW
INGOTS
IN INDIA

Sow Ingot

Capacity	200 KT
Technology	Remetal Befesa (Spain)
Alloy variant	P1020
Dimension & Weight	865mm * 865mm * 370mm / 540kgs 890mm * 890mm * 390mm / 590kgs 920mm * 920mm * 410mm / 630kgs
Application	Remelting for downstream applications



Slab

Capacity	100 KT
Dimension	410mm * 1270mm, 410mm * 1540mm, 410mm * 1620mm
Length	5500-5700mm
Alloy offerings	1xxx, 3xxx, 4xxx, 8xxx
Technology	Epsilon Ingot Casting Technology by Wagstaff (USA), In-line Treatment Facility – SNIF P140 by Pyrotek (USA), CFF (23x23x2, 40 ppi), Auto Cutting Machine from M/s Sermas, France
Thickness	Nominal Edge Thickness ± 4 mm Ingot Profile Thickness ± 4 mm Width ± 4 mm Convexity ± 4 mm
Application	Structural applications



STATE-OF-THE-ART
TECHNOLOGY
FOR
**BEST
QUALITY**





INDIA'S LARGEST
PRIMARY
SUPPLIER OF
FLIP COILS

Flip Coil

Capacity	24 KT
Rod diameter	9.5mm, 12mm, 13mm, 15mm
External diameter	1100-1200 mm
Internal diameter	570-590mm
Alloy offering	1xxx
Technology	Continuous-Properti (Italy) / Hindudyog
Packing	Flipping cage and mounted on wooden / mild steel pallet and strapped with pallet horizontally or vertically. All coils are wrapped in stretch film and palletized.
Application	De-oxidizing agent in steel industries, metal purifier for special grades



Cold Rolled Product

Capacity	25 KT
Variants	Cold Rolled Coils (CRC), Cold Rolled Sheets (CRS)
Length	Customizable
Alloy offerings	1xxx, 3xxx, 8xxx
Inner diameter	CR Coils: 200mm (for all thickness), 500mm (for thickness 0.4mm and above)
Temper	CR Sheets: H1, H2, H3, H4, O CR Coils: M, H1, H2, H3, H4, O
Weight	250-4000 kg
Width	800-1500mm (CR Sheets) 100-1500mm (CR Coils)
Thickness	0.28-5mm (CR Coils) 0.56-6mm (CR Sheets)
Technology	Cold Rolling Mill and slitting line from NKMZ (Russia) Casting station by ALMEX (USA)
Packing	Straps / HDPE Covering / wooden saddle / edge cover with flute board
Application	Foil Stock, PP Cap, Roofing Sheet, Insulation Coils, Fan Blade Sheets, Selective Automotive Parts, Bus Body, Cookware, GEQ (General Engineering Quality)





SUPPLIED
TO LEADING
AEROSPACE
COMPANIES

Hot Rolled Product

Capacity	19 KT
Variants	Hot Rolled Coils (HRC), Hot Rolled Plates (HRP)
Length	Customizable
Alloy offerings	1xxx, 3xxx, 8xxx
Width	885-1620 mm (HRC), 100- 1500 mm (HRP Trimmed), 100-1540 mm (HRP Untrimmed)
Thickness	4.5-12 mm (HRC), 6-200 mm (HRP)
Technology	Hot Rolling Mill and slitting line from NKMZ (Russia) Casting station by ALMEX (USA)
Packaging	Straps / HDPE covering / wooden saddle / edge cover with flute board
Applications	Re-rolling Industry, Electrical Busbars, Boiler Tanks, GEQ (General Engineering Quality)



Vedanta Aluminium Park

To cater to the ever-increasing global demand for aluminium, Vedanta is setting up a state-of-the-art Aluminium Park near our aluminium smelter in Jharsuguda, Odisha. Sprawling over 253 acres, the Park will be an industrial complex where industries can set up their manufacturing units and draw hot metal from our smelter to manufacture their products.

One of India's largest metal parks, the Park provides companies an unmatched advantage to exponentially grow their business, including:

Increased Productivity:

With priority access to just-in-time high-quality hot metal in any desired quantity, customers can boost their productivity, production flexibility and cost-competitiveness significantly.

Reduced Time:

With instant availability of hot metal, the time needed for transportation and remelting will be curtailed, saving our customers significant time and money.

Reduced Working Capital:

Liquid metal transported at the desired temperature through pre-heated ladles will save customers both operations and costs associated with re-melting.

Technical and After-sales Support:

Proximity to our aluminium smelter will give customers access to our Centre of Excellence, R&D facility, and network of emerging-tech start-ups and global metal/technology experts, to provide a leg up to their competitive edge.

SEZ for Export-oriented Industries:

The presence of an SEZ Smelter at our Jharsuguda complex is an added advantage for export-oriented industries for producing their goods.

Reduction in Carbon Footprint:

Eliminating the need for re-melting or long-haul logistics, the Park will help curb significant carbon emissions to the tune of 60-70,000 tonnes per annum. This will help customers produce low-carbon products and decarbonize their operations.





Vedanta Smelter-2
(1.25 MTPA, SEZ)

Aluminium Park

Vedanta Smelter-1
(0.5 MTPA, DTA)

- Available hot metal supply **300 kilo tonnes per annum (KTPA)**
- Site area **~253 acres**
- Distance from Smelter 1 (DTA) **~3.5 km**
- Distance from Smelter 2 (SEZ) **~5.6 km**
- Proximity to **Airport and Railway Station**
- Well connected to **Haldia/Kolkata, Kakinada, Paradip, Vizag & Gangavaram Ports**

For more information, reach out to aluminium.park@vedanta.co.in

UPCOMING
**WORLD-CLASS
FACILITY**



CERTIFICATIONS

We have robust systems in place to understand and exceed customer expectations. Alongside timely delivery, we strive to assure our customers of the best quality, in compliance with globally accepted technical standards and certifications, for all deliveries. These coveted certifications provide unmatched quality assurance to our valued customers. Vedanta Aluminium's products are certified by the following agencies:

ISO 9001:2015 (Quality Management System)

Certified for the production and supply of primary aluminium and alloys

IATF 16949:2016

Certified for the production and supply of PFA and Billets for various applications to the automotive industry

ISO/IEC 17025:2017

NABL accreditation for laboratory for Testing Accreditation Certification

Bureau of Indian Standards (BIS)

for Primary Ingots, Alloy Ingots and Cast Bars, Wire Rods, Rolled Products (Sheet, Plate-Conductors and Plate-General Engineering)

Sustainable development with ESG excellence is the bedrock upon which we conceive our growth plans. As one of the world's leading aluminium producers, we strive to make our processes and products more sustainable with each passing day. Our certifications include:

ISO 14001:2015 (Environment Management System)

Certified for the production and supply of primary aluminium and alloys

ISO 50001:2018 (Energy Management System)

Certified for the production of primary aluminium and alloys

Safety of our people is of paramount importance for us. We have put in place internationally recognized standards on health and safety to create a 'zero-harm' environment for everyone who works with us. Our certifications include:

ISO 45001:2018 (Occupational Health & Safety Management System)

Certified for the production and supply of primary aluminium and alloys

ASSURING OUR
CUSTOMERS
OF THE
**BEST
QUALITY**



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