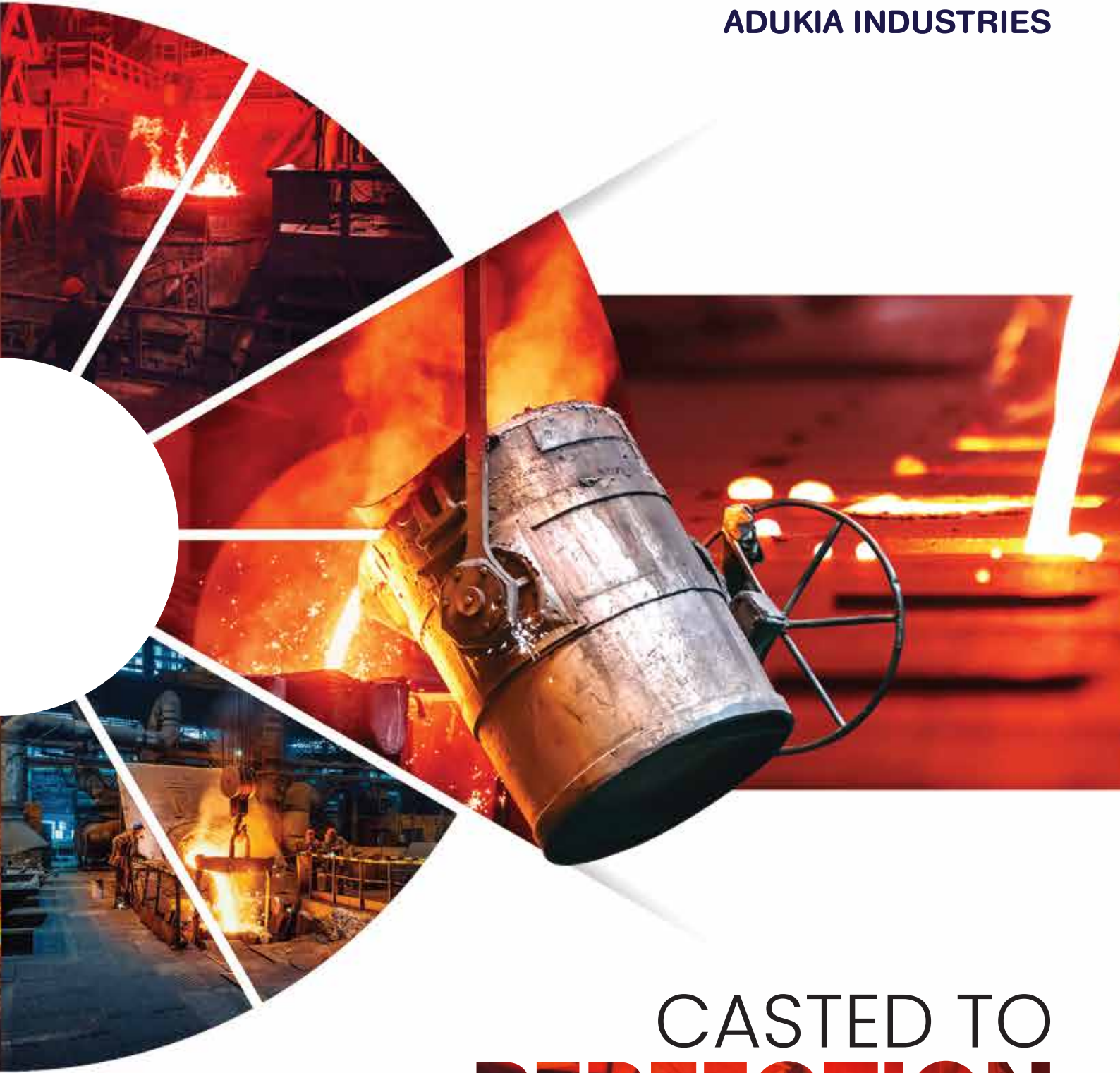




ADUKIA INDUSTRIES



CASTED TO
PERFECTION

AIC CASTING PRIVATE LIMITED

COMPANY OVERVIEW

Established in 1971 by Late Shri Bajrang Lal Adukia, Adukia Industries is a leading manufacturer of high-quality iron and steel products.

With the support of his wards, Shri Dinesh Adukia, Shri Vivek Adukia, and Shri Gyan Adukia, we have achieved a turnover of ₹ 25,000 million and built a strong distribution network covering major parts of India.

Adukia Industries' success is a testament to the founder's vision, hard work, and commitment to producing superior products that meet the needs of our customers.

VISION

To become the global leader in steelmaking and castings.

MISSION

To build a fully integrated setup capable of producing 3 million tons of superior-quality steel annually, while implementing reliable and environmentally sustainable manufacturing practices.

AIC MORE THAN JUST CASTINGS



N.N. Ispat (P) Limited

N.N. Ispat Private Limited, located in Burdwan (West Bengal), is a highly reputable manufacturer of TMT bars. With a production capacity of 4 lac tons per annum, we produce various high-quality steel products, including TMT bars, billets, wire rods, and HB wire. We are recognised for our commitment to provide quality products and services at the most reasonable prices.

RAIC Integrated Sponge & Power (P) Limited

RAIC Integrated Sponge & Power Private Limited is located in Jamuria (Burdwan), West Bengal. We have an annual production capacity of 2.2 lac tons of DRI, 3 lac tons TMT Bars and 6000 tons of ferroalloys. We have a power plant of 20 MW. We are expanding to become self-reliant in terms of power supply, contributing to the overall development of India.



AIC Iron Industries (P) Limited

AIC Iron Industries Private Limited, located in Purulia, West Bengal, is a leading producer of mild steel billets, HR narrow strips, and pipes, with an annual production capacity of 1.2 lac tons. Our commitment to quality and state-of-the-art facilities has established us as a reliable supplier of high-quality steel products to various industries.



ABOUT AIC CASTING

AIC Casting, established in 1994, is a trusted name in the foundry industry with a strong footprint in both Indian and global markets with the manufacturing of Cast Iron Casting and Ductile Iron Casting.

We have a production capacity of 20,000 tons per annum.

Our mission is to become the leading global supplier of premium-grade sand castings of all sizes and weights. We advocate customer satisfaction through an array of exceptional products and prioritize using modern technology in line with international standards such as ASTM, DIN, EN, and BIS.

We have a well-equipped testing laboratory to conduct metallurgical and mechanical testing to ensure the highest standards of output produced. We use state-of-the-art technology to cater to diverse requirements that blend with superior products at just the right cost.

Expansion plans: We are coming up with a new state-of-the-art Foundry Park, near Kolkata, West Bengal. The facility will have a capacity of 36,000 tons per annum and manufacture grey iron, ductile iron, alloy castings, and more.



FOUNDRY STANDARDS AND CERTIFICATIONS



ISO 14001:2015



ISO 9001:2015



ISO 45001:2018

**GIVING YOU
THE AIC ADVANTAGE**



Putting
technology first



Sound management
at every step



Quality sample
development process



Commitment of
consistent quality



Timely
delivery



MANHOLE COVERS AND FRAME

AIC Casting is a leading manufacturer and exporter of high-quality Cast Iron Manhole Covers, Ductile Iron Manhole Covers, Building Materials, and Sanitary Castings in India for drainage and sewerage usage.

We adhere to globally accepted EN-124 and ASTM standards. We have 2500 readily available patterns and state-of-the-art in-house VMC machines for pattern making.

OUR EXTENSIVE

PRODUCT RANGE INCLUDES

- ◆ Surface boxes
- ◆ Catch basin covers
- ◆ Circular manhole covers
- ◆ Recessed manhole covers
- ◆ Kerb drain manhole covers
- ◆ Carriageway / Telecom covers
- ◆ Square & rectangular manhole covers
- ◆ Gas & airtight inspection manhole covers



Product Specification:

◆ Material:	Cast Iron (ASTM A48) (GG 20, GG 25) and Ductile Iron (ASTM A536) (GGG 50)
◆ Sizes:	300 mm X 300 mm (12" x 12") to 1000 mm X 1000 mm (48" X 48")
◆ Load Rating:	A15, B125, C250, D400, E600 and F900
◆ Painting:	Black Bitumen, Epoxy
◆ Marking:	Custom Logo and Special Lettering
◆ Lifting Options:	Non-Penetrating Pickhole, Penetrating Pickhole, Vent Pickhole, Pick-Bar and Drop Handle
◆ Other Features:	Hinging, Machining, Locking provision available, Leak proof and customized design available



TRENCH GRATES

AIC Casting also produces cast iron trench grates. It is a framework of parallel crossed bars typically used as a partition, guard & cover over an opening or gully.

This feature prevents access through the opening while permitting communication or ventilation.

Trench grates come in 2 forms

Gully Gratings: These are used to drain out rain and wastewater from roads and enclosed compounds. The hinges in these gully gratings keep the openings tightly shut and make them easy to pull out for maintenance.

Channel Gratings: Channel grating drainage systems, as the name suggests, are floor drainage systems with channel structures used for the fast flow of surface water. These channels have long lengths and are simple and easy to install.

Product Specification:

◆ Material	Grey Iron (ASTM A48) (GG 20, GG 25) and Ductile Iron (ASTM A536) (GGG 50)
◆ Width	150 mm to 600 mm
◆ Length	300 mm to 1000 mm
◆ Load Rating	B125, C250, D400, E600 and F900
◆ Painting	Black Bitumen or Epoxy
◆ Other Features	Hinging and bolting provisions available and customised designs available



SURFACE BOX

AIC produces a wide range of cast iron and ductile iron surface boxes depending upon customer requirements.

Surface Box is one of the most important structures required for electrical connections underground.

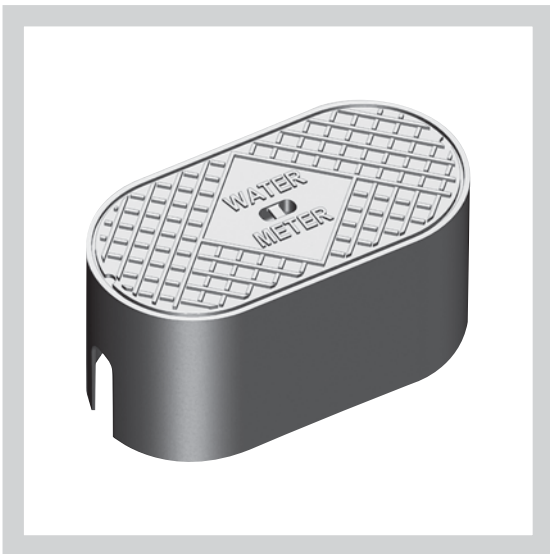
We make this box available in different dimensions and structural configurations as per demand.



Product Specification:

◆ Material	Grey Iron (ASTM A48 Class 30 / Class 35), and Ductile Iron (ASTM A536)
◆ Lids	Standard, Locking & Traffic Rated
◆ Markings	Logo & Custom
◆ Coating	Black Bitumen or Epoxy

MUNICIPAL CASTINGS



METER BOXES

AIC's cast iron water meter boxes come in different sizes and designs, depending on the specific needs of the water utility or municipality.

We typically design them with a removable lid to provide easy access to the water meter for maintenance and repairs.

Our Meter Box remains popular for its strength, durability, and resistance to wear and tear.

Product Specification:

◆ Material	Grey Iron (ASTM A48 Class 30 / Class 35), and Ductile Iron
◆ Type	Standard Boxes, and Municipality Specific
◆ Lids	Standard, Locking, AMR Hole, Recessed AMR Hole, and Knockout AMR Hole
◆ Markings	Custom Logos Available
◆ Coating	Black Bitumen & custom



VALVE BOX

AIC is one of the leading manufacturers of cast iron and ductile iron valve boxes.

These valve boxes are designed to enclose and protect sensitive components in otherwise high stress areas like underground electrical parts, gas pipelines, irrigation control systems among many others.

Our valve boxes come in various dimensions and structural configurations to meet clients' needs.



Product Specification:

◆ Material	Grey Iron (ASTM A48 Class 30 / Class 35), and Ductile Iron (ASTM A536)
◆ Type	Screw, Slip, Roadway Box and Service Box
◆ Lids	Standard, Locking & Traffic Rated
◆ Markings	Logo & Custom
◆ Extension & Risers	Various Sizes
◆ Coating	Black Bitumen or Epoxy

INDUSTRIAL CASTINGS



COUNTERWEIGHTS

We at AIC are committed to building quality counterweights by utilizing advanced casting techniques and state-of-the-art equipment.

Our quality is evident in the rigorous testing and inspection procedures that we undertake to ensure that each counterweight meets or exceeds industry standards.

Counterweights are used in a variety of applications where balancing or stability is required.

From earthmoving equipment in construction and mining industries to forklifts, counterweights stabilise balance and aid in lifting.

Product Specification:

◆ Material	Grey Iron (ASTM A48 Class 20 / Class 30)
◆ Machining	Drilling, Boring, CNC
◆ Painting	Primer / Topcoat as per customer requirement
◆ Packaging	Wood / Steel Pallets
◆ Size	up to 3 MT SMT single piece
◆ Weight	3 kg to 3000 kg



MOTOR BODY FRAME

AIC is a pioneer when it comes to motor bodies. We can manufacture high-quality engine blocks, producing more reliable and efficient vehicle engines.

Cast iron is favoured for motor bodies due to its high strength and durability, which makes it resistant to wear and tear.

We produce frame sizes starting from 160 to 400 mm.



Without Machining



With Machining



Without Machining



With Machining



AIC ADVANTAGE

AIC has an edge over others in the manufacturing of motor body frames in Eastern India, offering a distinct advantage in the market.

Product Specification:

◆ Material	Grey Iron (ASTM A48) (GG 30)
◆ Painting	Epoxy and other paint as per the RAL no. provided by customers
◆ Other features	Full machining
◆ Manufacturing Capacity	3 kg to 3000 kg

INDUSTRIAL CASTINGS



Without Machining



With Machining



Without Machining



With Machining

GEAR BOX HOUSING

AIC's gearbox cases are ideal for a wide variety of applications. We make housing for different types of gearboxes, such as:

- ◆ Helical
- ◆ Cooling Tower
- ◆ Extruder
- ◆ Worm
- ◆ Crane Duty

Product Specification:

◆ Material	Grey Iron (ASTM A48) (GG 30)
◆ Painting	Epoxy and other paint as per the RAL no. provided by customers
◆ Other features	Full machining
◆ Manufacturing Capacity	3 kg to 3000 kg

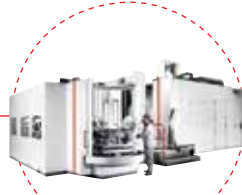
MACHINING FACILITIES



HMC (PALLET CHANGER)

Make: BFW
Controller: FANUK

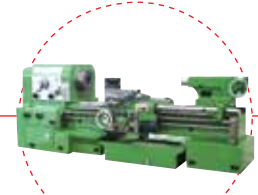
Size	Machine-1	Machine-2
X AXIS	1000 MM	700 MM
Y AXIS	850 MM	560 MM
Z AXIS	1000 MM	560 MM



VMC (PALLET CHANGER)

Make: BFW
Controller: FANUK

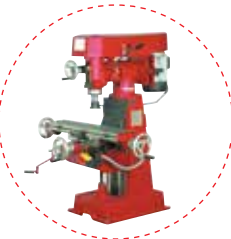
Size	Machine-1	Machine-2
X AXIS	1050 MM	1000 MM
Y AXIS	610 MM	600 MM
Z AXIS	610 MM	600 MM



CONVENTIONAL LATHES

Make: PATHAK MACHINERY

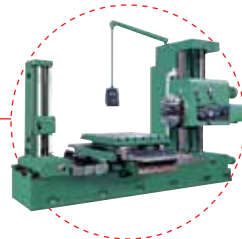
LENGTH	TURNING DIA
3000 MM	750
3000 MM	600
3000 MM	750
1080 MM	400



CONVENTIONAL VERTICAL MILLING

Make: HINDUSTAN

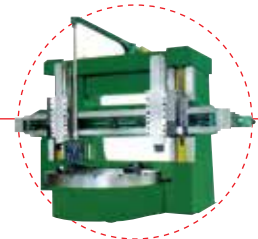
Size	Machine
X AXIS	500 MM
Y AXIS	400 MM
Z AXIS	500 MM



CONVENTIONAL HORIZONTAL MILLING

Make: HINDUSTAN

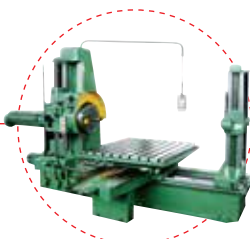
Size	Machine-1	Machine-2
X AXIS	600 MM	500 MM
Y AXIS	700 MM	600 MM
Z AXIS	900 MM	800 MM



VERTICAL TURNING LATHES

Make: BULARD

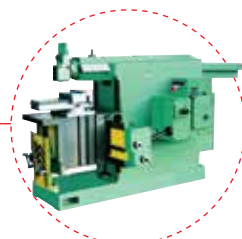
RAM STROKE	CHULK DIA
1117.6 MM	1320.8 MM
812.8 MM	1016 MM



HORIZONTAL BORING MACHINE

Make: NILES

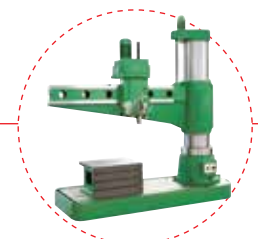
Size	Machine
X AXIS	1000 MM
Y AXIS	850 MM
Z AXIS	1200 MM



SHAPING MACHINE

Make: GOLDEN MACHINERY

Travel Stroke:	
X AXIS	800 MM
Y AXIS	600 MM
Z AXIS	1200 MM



RADIAL DRILL MACHINE

Make: GOLDEN MACHINERY

SWING RADIUS	DRILLING CAPACITY
1000 MM	38 MM
500 MM	38 MM

QUALITY CONTROL

We have a well-equipped testing laboratory to conduct metallurgical and mechanical testing, ensuring the highest standards in output produced.

Physical



Sand Testing Lab

- ◆ AFS Analysis
- ◆ Clay Content Test
- ◆ Permeability Testing
- ◆ Compressive Strength Testing



Hardness Testing

- ◆ Poldi Hardness Tester
- ◆ Brinell Hardness Tester
- ◆ Digital Rockwell Hardness Tester



UTM for Tensile

UTM testing involves applying a tensile force or pulling force to a material sample until it reaches its breaking point.

Chemical



Spectrometer

- ◆ Mass Spectrometers
- ◆ Emission Spectrometers
- ◆ Absorption Spectrometers



Carbon Silicon Analyzer

Carbon Silicon Analyzers measure carbon and silicon content in steel production to ensure the final product's quality and properties.



ERP Software

We use Lighthouse ERP for all business operations, from procurement to HRM, including finance, production planning, sales, logistics, quality, and marketing. Our system ensures consistency across all departments, reducing the chances of mistakes and duplication of effort.

INDUSTRIES SERVED



Transmission Plants



Sanitary Industry



Rail Industry



Airports and Ports



Water Distribution Solutions



Automobile Industry



Electric Motors



Textile Industry



Defense Industry

NUMBERS TO REMEMBER



20000 MT per annum
Installed Capacity



2.5 acres
Constructed Area



3 MT
Max weight of single piece casting



5 mm
Minimum wall thickness



1000X1500X3000 mm
Single piece size up to



15,000 MT per year
Moulding capacity

GLOBAL PRESENCE

Our Products find its way to more than
15 Countries directly and indirectly



Canada



Middle East



US



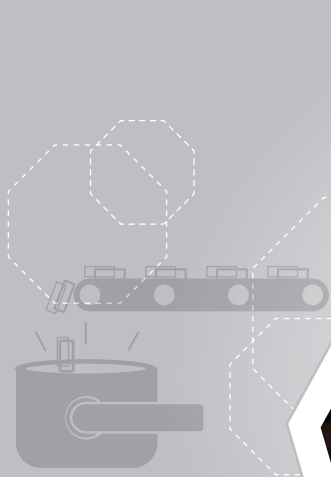
India

South Africa




Export Packaging and Shipping

Our castings are packed in wooden crates, securely strapped with iron strips, and then wrapped in plastic for added protection. Each crate is labeled, and we ensure fumigation in containers and radioactivity testing to meet export standards.





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