

# HEMENDRA METAL INDUSTRIES

SINCE 1950  
ISO 9001: 2008

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# HEMENDRA METAL INDUSTRIES

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IF IT'S  
**LEAD**  
WE MAKE IT.



Over 50 years of experience in the field of LEAD. Promoted by US educated and trained individuals in the fields of Metallurgy & Finance. State of the Art 20,000 sq.ft. manufacturing facility. Multiple Rolling Mills, Extrusion, Casting, Injection Molding & Lead Pouring Facilities. On site tool room & designing facility

## CERTIFICATES:



## QUALITY ASSURANCE:

No two projects are alike. For this reason, HMI designs a quality system that matches the specific procedure required to produce a quality nuclear lead pour. HMI works together with clients to ensure a system of quality controls that meets their specified requirements. HMI creates various documents to ensure that all steps of the pouring procedure are followed. This ensures that the sub-elements of the job meet the necessary requirements in order to produce an acceptable part. Our quality assurance staff analyzes all of the documentation for variances and, when necessary may implement corrective procedures during the manufacturing stages to guarantee all requirements have been met.

HMI was to distinct Lead Pouring facilities based on the sizes of vessels. The smaller facility can cater to lead pouring up to 50 MT single shot. The larger facility can cater up to 200 MT single shot which is the largest of its kind in india. HMI's facilities are fixed with computer controls, real time weight, temperature control and measurement. HMI has multiple arrangements for vessel heating and the lowest efficiency it has achieved is 97.5%

## LEAD ANODES:

HMI's anodes are customized for clients as per their alloy specifications & dimensions. HMI counts the leading hard chrome platers, anodizers and electroplaters as its clients. Anodes also find application in the marine industry to prevent corrosion resistance. HMI has produced single piece anodes up to the length of 6 mtr. for export markets



Hemendra Metal Industries (HMI) has been a pioneer in the business of lead and lead products over the past 50 years. HMI's expertise is also due to a state of the art facility, measuring over 20,000 sq. ft. fitted with imported machinery and multiple overhead cranes for safe and effective handling of material. We believe in providing customized solutions to client in order for them to minimize their costs and investments and maximize profits.

The firm is supported by highly qualified internationally educated and experienced team members. This dedicated team believes in taking up the most challenging projects truly embody our motto "IF IT'S LEAD WE MAKE IT".

## ABOUT US:

### MANAGEMENT TEAM

**Rajendra K. Doshi** - Mr. R. K. Doshi, is a trained Metallurgist from the University of Missouri. He has had over 45 years of experience working for International mineral and metal firms like ASARCO before promoting HMI. The firm has entered new fields of Lead under his astute and inspiring Leadership.

**Vijay R. Doshi** - Mr Vijay R. Doshi, too is an US educated team member of HMI. He has over 35 years of experience in the field of Lead. In his role Mr. Vijay oversees the administrative aspects of the business

**Jayesh R. Doshi**- Mr. Jayesh Doshi, oversees the day to day operations of the plant, production and operations. He has been instrumental in helping the firm deliver goods and services to the clients in a timely manner.

**Manish R. Doshi, CFA** - Mr. Manish Doshi, is the newest addition to the team. Manish has an MBA from Fairleigh Dickinson University, USA and a CFA from CFA Institute, USA. He has over 10 years of international experience working for Citigroup in New York where most recently he was the Chief Operations Officer of their OTC derivatives business. Manish brings the financial, strategic and international experience to take the firm to a world class producer.

In addition to the above the management team is very ably supported by highly trained and educated engineers, finance, accounting & marketing personnel.

## CORPORATE PHILOSOPHY:

Our mission is to be a leading and a trusted producer of lead products globally.

### OUR VALUES

**Entrepreneurship:** We foster an entrepreneurial spirit throughout our businesses and value the ability to foresee business opportunities early in the cycle and act on them swiftly. Our ability to translate an idea into reality within the shortest possible timeframe is critical to our rapid growth and diversification into new areas and commodities. Our people form a core of our existence. We provide them with the tools to enhance their skills and better themselves.

**Growth:** We believe in growing organically and have pursued growth across all our businesses and into new areas, always on the basis that value must be delivered. We do not believe that we are the only beneficiary of our growth. We see growth as a means to increase the wealth and prosperity of our society at large.

**Excellence:** Achieving excellence in all that we do is our way of life. We consistently deliver products ahead of time at industry-leading and within budget. We believe in giving our customers a quality product at a reasonable price in order to make them life long partners.

**Trust:** We recognize that we must responsibly deliver on the promises we make to earn that trust. We constantly strive to meet stakeholder expectations of us and deliver ahead of expectations. We always behave in a manner that is consistent and upholds our value system. Trust is also our stakeholder's belief that we will always act in a competent manner. We take feedback seriously and act upon it. We continuously work to improve ourselves and enhance our ability to deliver at all times.

We actively foster a culture of mutual trust in our interactions with our stakeholders and encourage an open dialogue which ensures mutual respect. We believe that this is part of being a good corporate citizen.

## LEAD SHEETS:

HMI has 3 rolling mills and can manufacture lead sheets from 0.5mm thickness – 4" thickness. HMI has in house capability to produce alloys of different combinations as per clients requirements. We can produce widths upto 6' and 30' length in single piece.

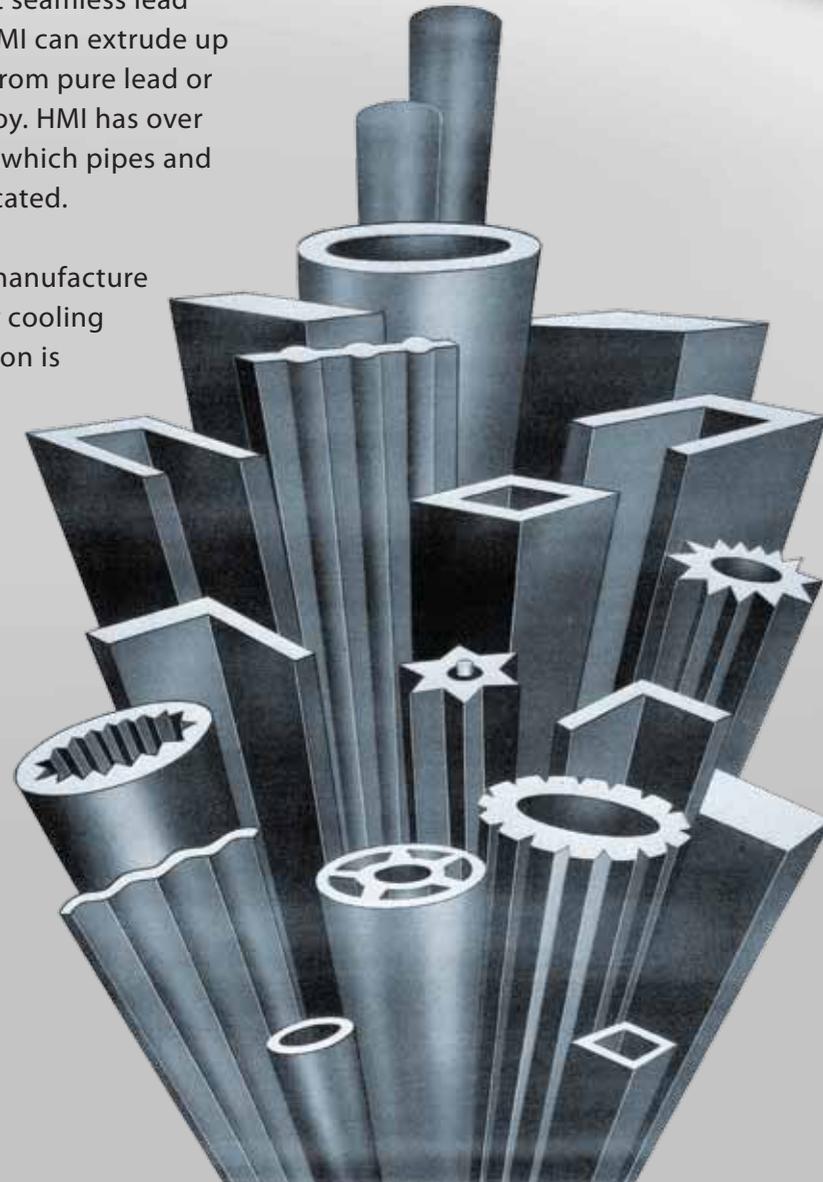
HMI's lead sheets also find application in the LEAD Lining work undertaken to protect reaction vessels from corrosion. HMI also carries out lead lining work for clients either on their site or at our plant.



## PIPES/ COILS:

HMI produces the finest seamless lead pipes in the industry. HMI can extrude up to 11.5" OD lead pipes from pure lead or any lead Antimonial alloy. HMI has over 200 different die's from which pipes and extrusions can be fabricated.

HMI pipes are used to manufacture lead coils for heating or cooling operations. This operation is carried out at our plant by a skilled team.



## PRODUCT LINE:

**Lead Bricks / Lead Shots :** HMI bricks and shots find application in **radiation shielding**, ballast weight, counter weight, x-ray rooms. They can be used for erecting walls, hot cells, transportation of radioactive material. Lead shots are used to reduce radiation exposure instantaneously where the ease of transportation is needed.

**Lead Pots/ Lead Castings :** Lead pots are used to carry radioactive material. Lead castings are used in various applications of dead weight, counter balances etc. HMI's lead casting find applications in the aerospace and marine areas. HMI's capability is in customizing clients needs.

**Lead Sheets :** HMI's lead sheets find applications in nuclear shielding, tank linings, roof flashing, sound-proofing, vibration absorbers, waterproofing and x-ray shielding, acid and corrosion protection fields.

**Lead Pipes :** Seamless extruded pipes and extrusions are HMI's specialty. Seamless pipes provide excellent tolerance under working pressure and also is devoid of pin holes. Pipes are primarily used for acid transfer in acid and rayon plants.

**Lead Anodes:** Anodes find application in the field of hard chromeplating anodizing and electroplating. HMI's anodes are customized to clients specs. We carry several standard sizes.

## WHAT MAKES US PROUD:



**AVASARALA TECHNOLOGIES LIMITED**

For BHAVINI for PFBR, 142 MT Lead bricks, 300 MT Lead shots, 90 MT lead pouring



**HEAVY WATER BOARD**

Department of Atomic Energy, Government of India.

210 sets of Antimonial Lead Anodes  
+ SS Cathodes



**Tarapur Atomic Power Station (TAPS)**

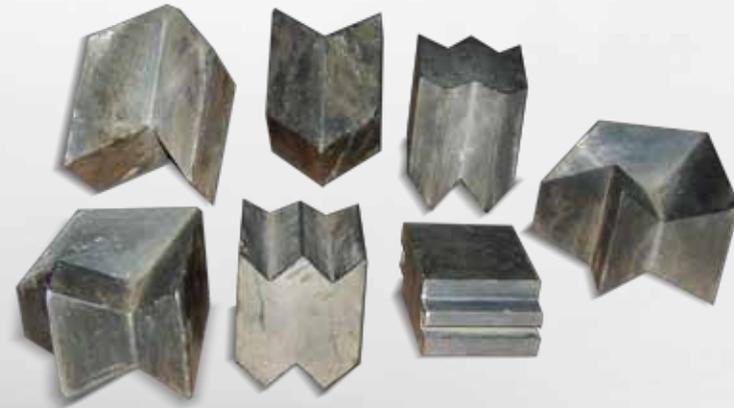
58 MT Antimonial Lead bricks + Interlocking Lead Bricks

## LEAD CASTING:

We manufacture custom lead castings from ounces to tons. Small prototype orders or large production runs, we can cast it all. We can cast almost any shape you need. Whether it is rounds, spheres, rod, bar, cubes, squares, rectangles, bricks, blocks etc., and machine to your final specifications as required - you name it, we can custom cast it.



HMI has over 50 different standard dies for ready delivery of bricks. HMI is always open to manufacture bricks as per clients requirements and size of the vessel. different lead bricks from simple 4" x 4" x 2" to over 2MT window bricks.



## LEAD BRICKS:

## LEAD SHOTS:

Lead shots are produced from sizes of 0.5mm – 2" diameter. Lead shots are manufactured as per the packing density required by the clients.



TAPP 3 & 4 : 340 MT Lead Pouring



TWL : 40 MT Lead shots



Over 100 MT Lead Sheets per year of various sizes for their export unit



BHEL : Lead Diaphragms for all their power projects

# 200 MT POURING FACILITY- THE LARGEST OF ITS KIND

## LEAD POURING:

Lead is the densest of metals in the periodic table and due to this it is an excellent source of shielding in medical, nuclear and radiation applications. For over a quarter of a century, HMI has developed a corporate mandate of excellence in its lead pouring procedures destined for the nuclear industry. HMI has excelled at developing proprietary processes that support rigid quality control standards. Experience gained from HMI's long history of nuclear pours for a wide variety of end users has culminated in nuclear shielding advancements. HMI continually searches to find ways to improve its nuclear pour methods that include documentation control, fabrication preparation, lead pour procedures, controlled preheat and cooling temperatures and a final inspection with many check-points throughout the process.

Lead Pouring is very delicate mixture of art and science. There isn't one specific method for Lead Pouring. Lead pouring is done taking into factor the size of the vessel, the type and the shielding needed from the source.