



# Lead Recycling • Turnkey Project



Mettherm Inc.



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**Factory:**

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# ABOUT US

Who we are- **Mettherm INC** is an ISO Certified Company since 2006, and is trusted as one of the most reckoned manufacturer, exporter, and importer in the market of furnaces, combustion equipment, etc, As a trusted manufacturer, we have achieved high manufacturing standards and are one of the most reckoned manufacturers, exporter in the market of furnaces, combustion equipments, etc.

**Mr. Dinesh Batra (Managing Director of METTHERM INC)** has vast experience in Non-Ferrous Metal industries since last 35 years. He is a specialized as consultant and in handling Turnkey projects for Lead Industries

We provide complete turnkey solutions to our esteemed clients for Processing Lead Ores, Recycling Lead Acid Batteries, and Lead Refining Solutions, till trial production under stringent emission norms to safeguard our environment

We develop our products in conformation to international standards, and provide them at competitive prices and within stipulated time limit

**Business Type:** Consultant, Manufacturer, Exporter

**Sale:** Domestic: 20% Export: 80%

**Primary Competitive Advantages**

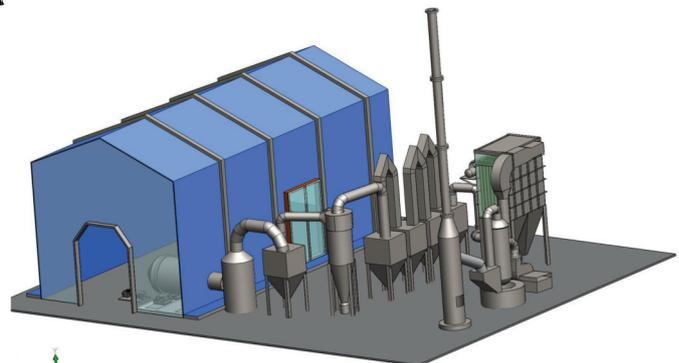
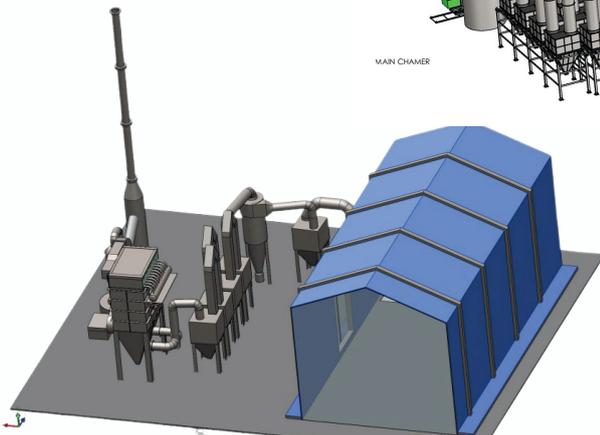
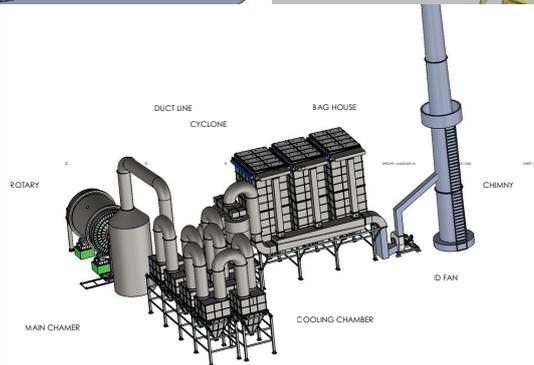
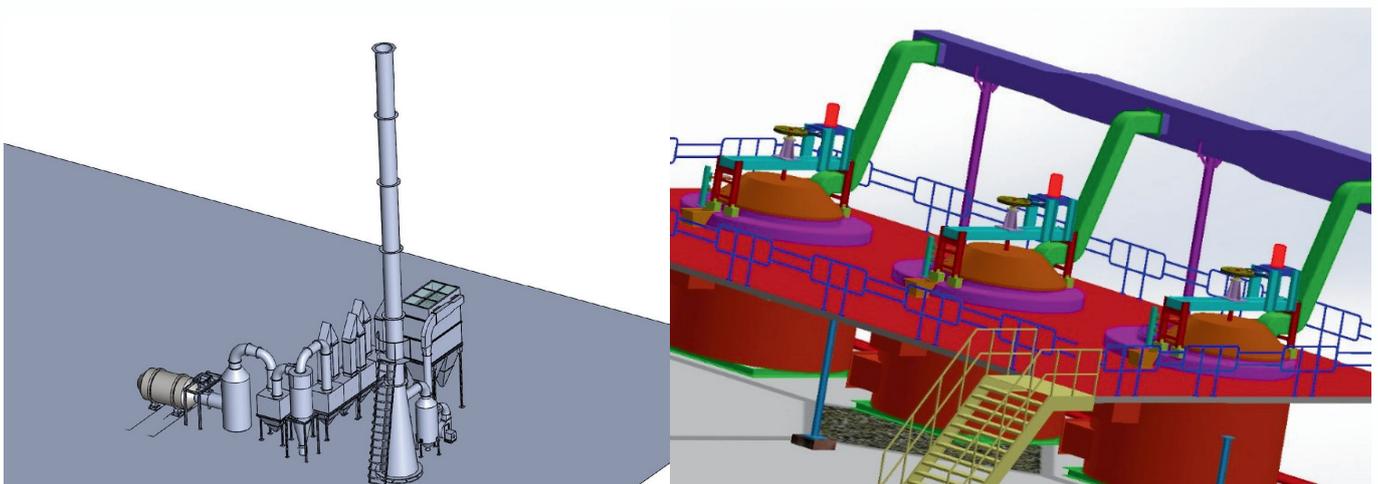
**METTHERM INC.** is a company fully dedicated in providing a solution for **recycling non ferrous metals** generated by various sources to help balance the ecosystem, with the help of some highly designed and manufactured machineries **since 2006**. The company started manufacturing and providing the solution from the year 2006 with all the required quality systems. We have a totally professional & client-friendly approach, where in we work as a team to fulfil the complete expectations of the customer. We believe in thorough **customer satisfaction** and **zero-defect service**.



# TURNKEY PROECTS & CONSULTANCY

We supply **fully automated, semi automated turnkey plants**, manufactured & designed to obtain the highest metal yield with all kinds of **Lead Scrap, Lead Acid Battery Scrap and Pollution Control Machineries**.

Our goal is to provide our clients with choices of service packages to match their financial parameters and project cash flows, rather than simply selling equipment, designs or metal work. Our customers can choose from the entire range of services in our areas of expertise and have a package tailored for them with the satisfaction of obtaining proven and effective solutions to their needs.



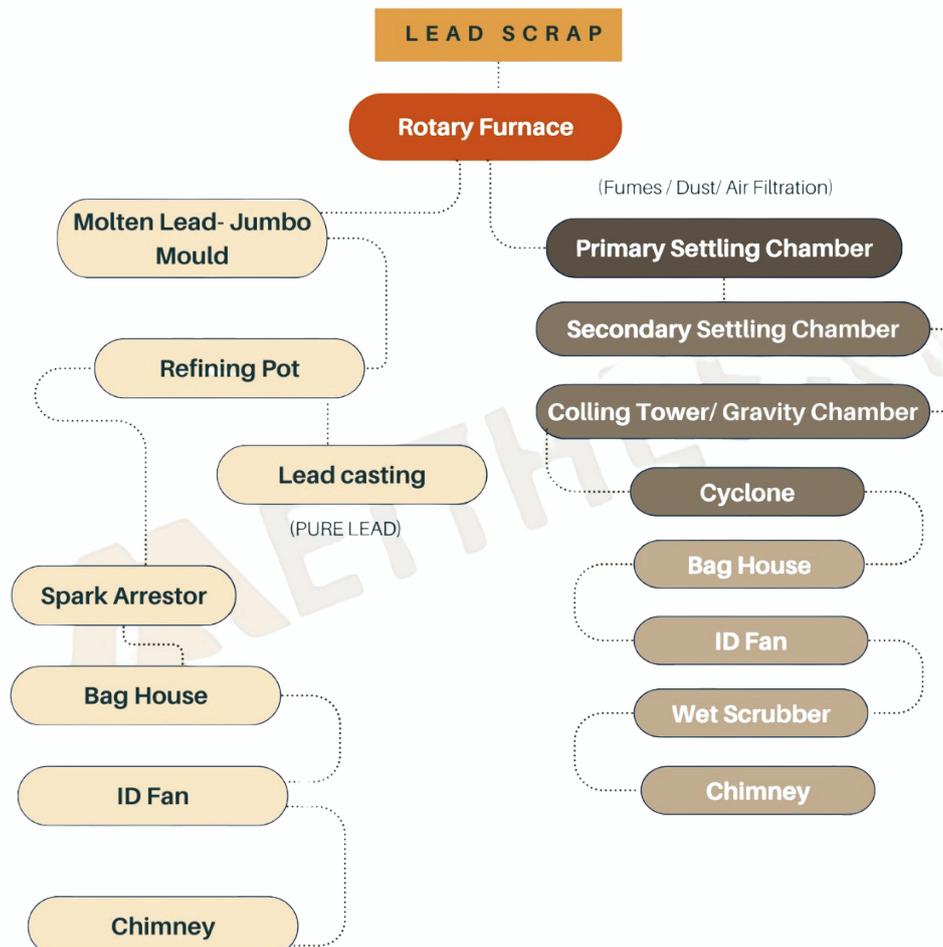
# LEAD RECYCLING PROCESS

The recycling process for lead is not unlike other metal recycling processes. Lead-based products are broken up at the smelter and the lead is separated from the rest of the components where they are then smelted and refined. The refined lead is then used in the production of new materials.

**Almost all parts of a lead-acid battery can be recycled.**

The main steps in the recycling process are as follows:

- Collection and transportation of the batteries to a recycling facility
- separation of the component parts of the batteries
- washing then shredding or melting of the plastic components
- smelting and refining of the lead components
- purification and treatment of the sulfuric acid electrolyte
- treatment and disposal of waste



Battery Breaking and Separation system is designed to treat lead acid batteries and to separate all the main components, each one with the lowest amount of impurities. Product: **Lead paste, Lead Grids/ Lead Ore & Polypropylene Chips**

# BATTERY CUTTING MACHINE & TERMINAL REMOVER- SEMI AUTOMATIC SYSTEM



# ROTARY FURNACE WITH HYGIENIC- ROOM

## Advantages of Rotary Furnace:

- Efficient Lead Recovery
- Effective in impurity Removal
- Environmental Benefits
- Compliance with Regulations
- Cost Effectiveness
- Increase in Metal Yield



Jumbo Mould

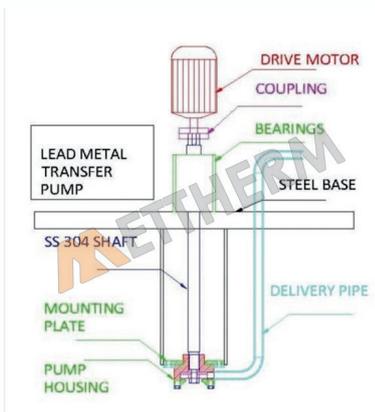
# LEAD REFINING SYSTEM

Lead refining equipment is used for providing lead as per the international purity standard of secondary lead i.e. 99.97% and above.



# LEAD METAL PUMP

Metal Pump for Molten Lead Transfer to Ingot Casting Machine/ Conveyor. Metttherm's high-temperature pumps are used for transferring molten metal, especially suitable for lead molten metal



# AUTOMATIC INGOT CASTING

Lead ingot Casting Machine is an automatic machine normally uses in space formation of the lead ingots through a continuous operation. during the casting process a pouring drum pour out the molten lead on the casting moulds to form of ingots (25kgs). The lead ingot stacking machine will operate in conjunction with ingot casting machine.



# AIR POLLUTION CONTROL SYSTEM

In Air Pollution Control plant for lead recycling fully designed and manufactured by METTHERM INC, various machines and equipment are provided to effectively control and reduce emissions. Some of the key machines commonly employed in such plants include:

- Bag house
- Wet scrubbers
- Gravity chamber
- Settling chamber
- Ventury scrubbers
- Dust collectors
- Induction furnace hood and dust exhaust system etc.



# EFFLUENT TREATMENT PLANT

ETP stands for (Effluent Treatment Plant) . it is a facility designed to treat and purify industrial wastewater, also known as effluent , before it is discharged into the environment or reused within the facility. The purpose of an ETP is to remove pollutants and contaminants from the wastewater to ensure compliance with environmental regulations and protect surrounding ecosystems.

- Wastewater treatment
- Compliance with regulations
- Environmental protection
- Resource conservation
- Reducation of health risks
- Sustainable operation
- Corporate social responsibility





**We have provided our projects & services in more than 20 countries.**



- ✓ Saudi Arabia
- ✓ Sharjah
- ✓ Indonesia
- ✓ Ajman
- ✓ Nepal
- ✓ Pakistan
- ✓ Ras-Al-Khaimah
- ✓ Thailand
- ✓ Philippines
- ✓ Cameroon
- ✓ Ethiopia
- ✓ Angola
- ✓ Zambia
- ✓ Algeria
- ✓ Morocco
- ✓ Mauritania
- ✓ Senegal
- ✓ Nigeria

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