LEAD SMELTING

Project Introduction

AN ANNUAL OUTPUT OF 50000 TONS OF ELECTROLYTIC LEAD

XIANGTAN LUFENG MECHINERY CO., LTD.



The grade of crude lead is generally only 95-98%, which also contains many impurities. The presence of these impurities can affect the properties of lead, such as increasing its hardness, reducing its ductility and corrosion resistance, making it unsuitable for industrial use. To this end, refining is necessary.









Process Flow Diagram of Lead Electrolytic Refining

Electrolytic refining process flow and electrolytic lead production process flow







Electrolytic refining process flow and electrolytic lead production process flow









Electrolytic refining process flow and electrolytic lead production process flow



Cathode production process flowchart





Cathode

production



electrolyte.



Electrolytic refining process flow and electrolytic lead production process flow



Process flow diagram of lead electrolysis process





List of electrolytic lead equipment

Indicator Name	number
low voltage distribution panel	1
Low voltage distribution panel	3
Power distribution control box	3
On site operation box	6
rectifier cabinet	2
Control cabinet	2
rectifier transformer	2
transformer	1
dc sensor	2
Computer monitoring system	2
Electric lead ingot casting machine	

number
1
1
4
1
2
1
10
4
6000m ²
4
2

Indicator Name	number
Anode washing machine	2
2000m ² Pulse bag dust collector	3
2700m ^{2Pulse} bag dust collector	1
Desulfurization tower system	3
12.5m ² Scum reverberatory furnace	1
900m ² condenser	1
φ6700mmCoarse lead casting machine	1
1000kg/次 elevator	1
12.5m ² Dust collection system for reverberatory furnace position	1

Recycling of waste lead acid Battery regeneration lead project

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|Sawing machine disassembly | Reflex furnace melting | Fire refining | Tail gas treatment | Experimental equipment | Auxiliary equipment|



The waste Lead–acid battery is recycled to 99.99% refined lead. The specific process flow is that 99.99% refined lead is obtained from waste Lead–acid battery through sawing, reverberatory furnace smelting and pyrorefining. In order to meet local environmental requirements, corresponding dust collection, desulfurization, and sewage treatment equipment need to be equipped. XXX provides equipment and solutions.



Fuel and reducing agent

- Pulverized coal and heavy oil
- natural gas

product

Fire method lead ingots are called 'Lead Ingots' (GB/T469-2013) 2 # lead ingot, with a lead content of over 99.99%



Equipment Connection Diagram





Crushing process of waste Lead–acid battery





Crushing process flow of waste Lead–acid battery



Recycling of waste lead-acid batteries and regeneration of lead project



Reflex Furnace Melting Process

Crushing process flow of waste Lead–acid battery











Flue gas treatment (dust collection and desulfurization)





Battery crushing equipment list		List of Reflex Furnace Melting Equipment		List of Fire Refining Equipment	
Name	Number	Name	Number	Name	Numbe
Battery waste loading machine	1		Number	Refining furnace	2
Battery cutting machine	2	reverberatory furnace 1			
plastic crusher	1			Ingot Cast Machine	1
Polypropylene granulator	1	Heavy oil combustion system		crane	1
Waste acid collection tank	1	- Heavy oil supply system		Lead pump	2
Waste acid pump	2				L
filter press	1	Oil heating and processing equipment		lead mixer	2
Filtrate collection tank	1			Bag dust collector	1
Filtrate pump	2	pig moulding machine		Washing tower	1
Battery waste loading machine	1	Post dust collection induced draft fan		Induced draft fan	1
Neutralization tank	1				I
mixer	1	Post dust collection hood and pipeline		Post dust collection hood and pipeline	
water pump	2			Power distribution and control	1
Power distribution and control system	1	operating platform		system	I
operating platform				operating platform	1



List of dust collection and desulfurization equipment

Name	Number
cyclone dust collection	1
bag dust colletction	1
condensor	1
Post dust collection	1
Centrifugal induced draft fan	1
Desulfurization system	1
mixer	1
water pump	4
reclycle pump	4
filter press	1
Chimney and dust collection pipeline	1
Lime slurry tank	1
Clarification tank	1
Power distribution and control system	1
operating platform	1

Auxiliary equipment list

Name	Number
sewage-treatment plant	1
weighbridge	1
Laboratory equipment	1
diesel generator	1
Wheel loader	1
forklift	1
Pickup truck	1

Supporting equipment









Thank you for watching!

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