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HOT ALUMINUM DROSS PROCESSING MACHIN (ALUMINM RECOVERY SYSTEM)

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Main products: Aluminum Melting Furnaces, Aluminum Holding Furnaces, industrial furnaces, continuous casting and rolling machines, permanent magnetic stirrer, coal gas generator, aluminum dross processing machines etc. aluminum industry equipments

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Hot Aluminium Dross Processing Machine (Aluminum Recovery System)
Recover Aluminium, Reuse residual dross, Reduce waste material

The worldwide aluminium industry produces nearly millions tones of furnace waste (hot aluminium dross) each year. Known as dross, the residual waste material is produced from any process in which aluminium is melted, and is left behind after conventional recycling has been carried out.

However, dross is not a waste. Apart from oxides, dross is largely free aluminium (up to 80 percent by weight) making it a valuable commodity. This dross contains about 50% aluminium metal or more, but to collect the aluminium metal from the dross is a key challenge yet a necessity in saving resources, reducing costs and improving a firm's profit ratio.

The traditional dross processing technique involves the use of large quantities of salt to separate the aluminium from the oxides, but the salt remains trapped in the residue. Disposal of this residue in a landfill can created problems because the salt leaches out into the surrounding soil. The salt can be removed from the residue, but the process involves significant expense.

FOSHAN METECH ALUMINUM TECHNOLOGY CO.,LTD recently developed and patented an advanced technique for retrieving the aluminium from the material. It even allows full recovery and easy valorization of the non-metallic part of the dross. The new Hot Aluminium Dross Processing Machine (Aluminum recovery system) with advanced treatment method makes it economically viable to treat residual waste left after conventional recycling, offering cost savings and environmental benefits.



I . Features of the aluminum dross processing machine

1. No need for any fuel in the whole process
2. To reduce the dirt, smog pollution problem with dirt and smoke ventilation equipment.
3. Automatic mechanical operation, no harmful to the operator's health.
4. High efficiency for recycling rate (90% of aluminum from the ashes), short working time (10-12 minutes can process 100kgs-500kgs aluminum and ashes)

II . Main components of the dross processor:

Heatproof pot ; stirring vane ; transmission shaft; lifting rack ; feeding funnel and control electrical box, small size dust collector

III. Electrical control: Stirring vane with pro-grade and retrograde movement (can be manual), raise/fall, dust collector control.

IV .The dross processor should be installed horizontally

V Main parameters:

Item	SPECIFICATION	HL-900	HL-1100	HL-1300
Main Body	Overall dimensions	L1400 X W 1300 X H2700mm	L1700 X W1600 X H 3200mm	L2000 X W1800 X H3500mm
	Heat-prove pot specifications	φ900X L650mm	φ1200X L750mm	φ1300X L890mm
	Dimension of aluminum discharge outlet	φ30mm	φ40mm	φ50mm
	Process capacity at a time	100-250KG	200-400KG	200-500KG
	Exhaust	L420 X W300mm	L420 X W350mm	L500 X W400mm
Main bearing	Bearing dimension	φ90mm	100mm	φ130mm
Motor		5.5KW	7.5KW	11KW
Actuators	Ratio	1: 5	1 : 5	1 : 5
Dust collector	Overall dimensions	L800× W800×H2400mm	L1000× W1000×H2800mm	L1100×W1100× H3000mm
	Impeller Material	Stainless Steel	Stainless Steel	Stainless Steel
	Motor	3KW	4KW	4KW

Application of the Hot Aluminum Dross Processing Machine (Aluminum Recovery System)

1. Aluminium and Aluminium alloy manufacturers (Aluminum ingot plant, aluminum alloy rod mill, aluminum billets factory etc)
2. Those who use Aluminium and/or Aluminium alloy to manufacture products (i.e. die cast factories)
3. Factories that melt down Aluminium recycle materials to make Aluminium alloy
4. Other Aluminium industry-concerned plants (i.e. who collect and/or recycle Aluminium dross)

For much more details about the hot aluminium dross processing machine, please feel free to contact sales01@cnmetech.com. Or please refer to the below video link machine in running operation :

1. www.youtube.com/watch?v=eH8WQsmXotg

