



# Loadmaster

## Automatic Charging System



## FEATURES

- Handles ingots and scrap material simultaneously
- Controlled blending of scrap and ingots
- Module configuration adaptable to customer furnace arrangement
- Loads single or multiple furnaces, unattended
- In-furnace level sensor controls material movement
- Maintains stable furnace temperature

Single ingots are transferred from the ingot dispenser to the feed conveyor. As the controller commands, hydraulically actuated fingers close on the ingots beveled end then moves it to the feed conveyor

Put LOADMASTERS to work in your foundry and watch manpower utilization Improve!

A single unattended LOADMASTER Automatic Charging System moves up to 2500 pounds of aluminum ingot or scrap material per hour to its adjacent melting furnace. The system's feed conveyor automatically receives material from either an ingot dispenser, or from the scrap dispenser bin.



*Customized Products  
For Any Applications!*

[jcrautomation.com](http://jcrautomation.com)

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## Specifications

### SCRAP HOPPER CAPACITY

2000 # 1 Cu, Yd, Volume

### INGOT TABLE CAPACITY

4000 # Cross-Stacked

### INGOT SIZE CAPACITY

30 In. x 3 1/2 In x 4 In

### HYDRAULIC POWER SUPPLY

450 psi, 3 GPM

### ELECTRICAL POWER REQUIRED

240/480 3 Phase

### INGOT DISPENSING RATE

Up to 2500#/ HOUR BASED

On 100 INGOTS/HOUR

An optional batch weighing feature is available. Load cells are built into the conveyor support legs.

Charging rates are controllable to coincide with the melt rate (BTU output) of the furnace being charged. Feed conveyor movement is initiated by a signal from a level sensor in the melt pot of the furnace, or by manual commands initiated at the master control panel.

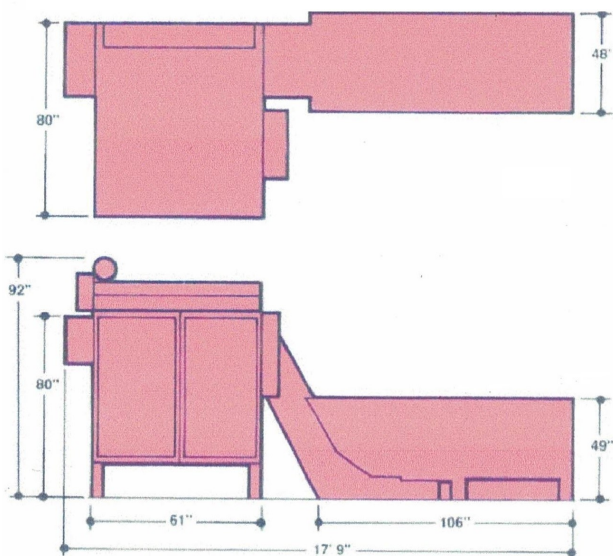
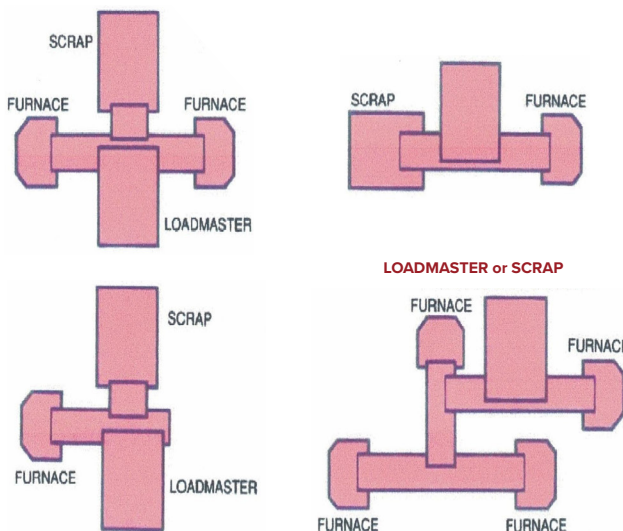
An optional charge weighing feature monitors and Winds ingot and strap material at pm-selected batch ratios.

Ingots raise to the transfer mechanism on a reciprocating rotatable lift platform. As Layers of ingots are removed, the controller raises the platform and rotates to position the next cross-stacked ingot row for pick-off. Safety doors provide access to restock the 4000 lb. Capacity lift.

The LOADMASTER's controller initiates batch commands for mixed charges, continuous ingot charging and continuous scrap feed. The feed conveyor moves material combinations to the furnace as directed by the level sensor, or by manual command.

In the floor of the scrap bin, a separately controlled steel-belt conveyor moves scrap material to the feed conveyor. The design shown incorporates an inherent ability to untangle and separate even the most difficult to handle material and deliver it t the feed conveyor on demand. All LOADMASTER functions are programmed at the master control panel. Once material source and charge make-up have been determined and the appropriate data entered,the master controller takes over to run the LOADMASTER unattended.

LOADMASTER's modular design provides maximum layout flexibility, matching most existing furnace arrangements.



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