

# Induction Furnace Material Handling Manipulator

This manipulator compacts scrap metal, increasing its density for improved energy conversion during the melting process. It also quickly moves scrap and packed blocks into the furnace while a remote control enhances operator safety.



## ADDITIONAL IMAGES



## Product Overview

### Industrial Induction Furnace Manipulator

This advanced material handling manipulator is designed to automate furnace operations, significantly enhancing safety by removing the need for manual intervention near the furnace mouth. By streamlining the charging process, the system improves melting efficiency, reduces tapping time, and extends the lifespan of furnace linings. It offers a robust hydraulic design with dual control modes, making it an essential upgrade for modern metal casting and forging facilities looking to optimize productivity and labor costs.

## Performance Metrics

### Operational Efficiency Gains

**8 min/batch**

Tapping Time Reduction

**3 kWh/ton**

Energy Savings

**38 batches**

Furnace Lining Lifespan

## Technical Specifications

### Dimensions and Weight

Component	Dimensions (mm)	Weight (kg)
Machine Body	5500 x 1350 x 1550	3135
Hydraulic Station	1100 x 1100 x 1500	285

### Hydraulic System Features

- 11KW high-efficiency oil-pump motor unit
- Automatic pump stop and pressure relief during idling
- Water-cooled oil temperature regulation
- Temperature differential control within 5°C
- Rear-mounted components to isolate from heat sources

## Operational Features

### Design Highlights

Hydraulic Cylinder Drive • Quick-Install Shift Lever • Compact Footprint • Stable Operation

### Control Modes

Local Control, Remote Control, Emergency Power Cut