

APPLICATION CASE STUDY #139

SIC Code:
3389

Product Handled:
Zinc or Copper Ingot

Machine Type:
LodeArm, LA- 3030

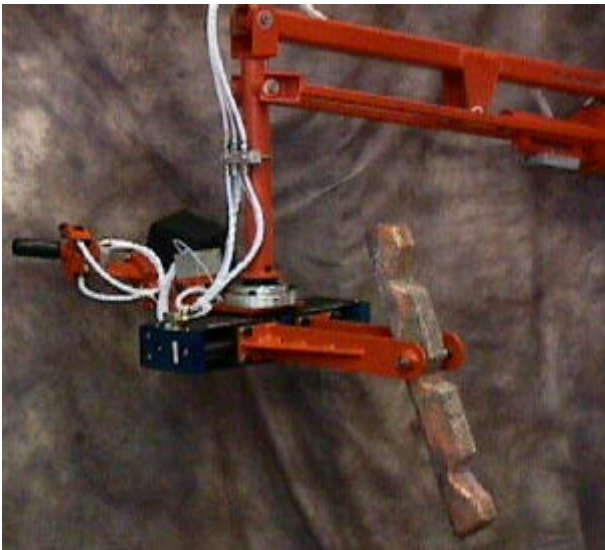
HANDLING PROCEDURE:

Pick up an ingot, weighing up to 60 lb., which is lying horizontally on a pallet. As the ingot is raised from the pallet it is allowed to rotate to a vertical orientation within the grip jaws. It is then transferred to the furnace pot. The part is positioned within the pot, rested against the side of the pot and then released.

PROBLEM:

The ingots are 24" long. The zinc ingot is 9" wide and the copper ingot is 3" wide. They are gripped in random order. The furnace pot heats the ingots to 700°F. The furnace hood is 92" from the floor. The top of the furnace is 48" from the floor. The ingot therefore must be placed into the pot that is 32" in and under the hood. Extended "reach in" is required to place the ingot around all the sides of the pot

MATERIAL HANDLING REQUIREMENT AND WORK AREA RESTRICTIONS



- Dirty and hot environment.
- The lift arm, down arm, tooling and part must fit within a 42" opening.
- Prevent release unless the ingot is firmly placed in the pot.
- 60 lb. maximum payload capacity.
- Environmental temperature is up to 700°.
- Parts are 9" to 3" in width.
- Parts must be rotated from horizontal to vertical.
- Low overhead clearance.

MATERIAL HANDLING SOLUTION

Model LA-3030 on a short pedestal with a portable base.

- The manipulator has 60 lb. payload capacity, 52.0" of vertical lift and 360° main post rotation.
- Motorcycle style throttle metering valve mounted on an air counter balanced "T" handle Hand Wheel.
- Gripper safety circuitry to prevent actuation of the release circuitry unless the part is fully supported
- Dual cylinder actuation of the gripper with extended jaw arms.
- Hardened steel set point grip pads.
- Dust and high temperature modifications.
- 360° of continuous non-powered rotation within the jaw arms.

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