

Prepared For :
**Vynckier Enclosure
Systems, Inc**

The logo for ASE systems is centered in the upper half of the page. It features the letters 'ASE' in a large, white, sans-serif font, with the word 'systems' in a smaller, white, lowercase sans-serif font directly below it. The text is set against a circular gradient background that transitions from a light blue at the top to a darker blue at the bottom. This circular element is partially overlaid by a larger, teal-colored shape that curves around the top and right sides of the page.

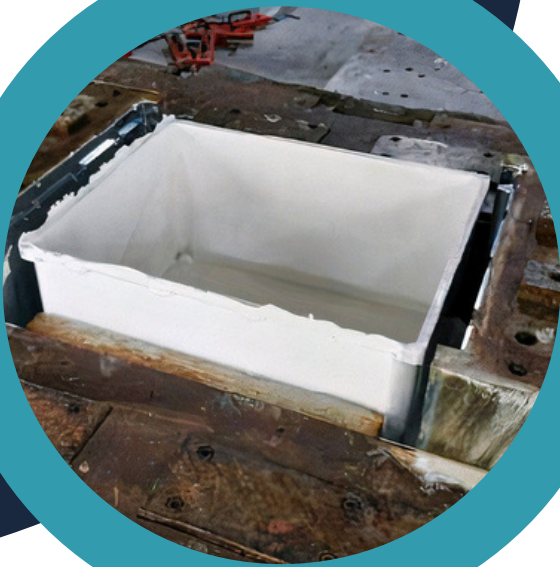
ASE
systems

Case Study

REPETITIVE LIFTING OF FIBERGLASS
ENCLOSURES OUT OF A MOLDING
MACHINE

Load Specifications

- Load Type: Fiberglass Enclosures
- Weight- 20 to 30-lbs
- Size- 18" x 16" x 10.5" to 24" x 36" x 11" to 24" x 24" x 11"



Application Analysis

- Pick up point- inside of molding machine at approximately 38" above floor level
- Travel- up to 10'
- Place point- table for deburring then to pallet stacked up to 72" above floor level.
- Tilt- 90°
- Ceiling height- 22'
- Cycle time- 1 every 3 minutes
- Air available- 120-psi in operating area

Handling Issues

Operator has to reach into the forming cell and unstick the enclosure from the mold and lift it out of the press. All the while the operator's arms are extended out and his back is bent 60 to 80 degrees. Repeating this action every three minutes was causing shoulder rotator cuff & lower back injuries.



The Solution

Based on the limited floor space around the press ASE specified a Mirus industrial manipulator with vacuum grip tooling that was underhung from a pair of aluminum overhead rails. The Mirus manipulator is ideally suited for reaching into enclosed machines and servicing all types of low headroom handling applications. The overhead rails were fastened to support beams that were attached directly to the top of the press. The manipulator is attached to an offset load platform which includes a power drive system for easier traversing back & forth along the dual rail system. The tooling was also able to rotate the load 90° for inspection and deburring activities.



Key Technologies

- Mirus Industrial Manipulator
 - <https://www.asesystems.com/industrial-manipulators/mirus/>
- Vacuum Grip Tooling
 - <https://www.asesystems.com/vacuum-lifters/>
- Over Head Rails
 - <https://www.asesystems.com/workstation-cranes/>



281-256-7450