

Prepared For :  
**Skyline Homes**

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 circle is surrounded by a larger, teal-colored circular shape that has a white, curved cutout on its right side, creating a dynamic, layered effect.

**ASE**  
systems

# **Case Study**

HANDLING DRYWALL AND  
SHEETROCK PANELS

## Load Specifications

- Load Type: Sheetrock & Drywall Panels
- Weight: 150-lbs.
- Dimensions : 8' x 4' x 5/16in.

## Application Analysis

- Load: Sheetrock & Drywall,
- Weight: 150-lbs.
- Size: 8' x 4' x 5/16"
- Pick point: from a heavy-duty rolling cart at 63" high, stacked to 96"
- Place point: Assembly table at 47" above floor level
- Area of coverage: Approx. 4'
- Ceiling height: 20' clear

## Handling Issues

Skyline Homes was handling drywall and sheetrock panels by hand, which required the use of two workers. The long panels are grabbed from a custom mobile Gantry cart on rails (shown below) then placed onto an assembly table. The goal was to implement a more efficient, ergonomic and safe method for this handling process.



## The Solution

ASE Systems proposed a Mirus100 Mirus pneumatic Manipulator with vacuum cup tooling. The customer wanted to be able to mount the unit on top of their gantry cart. We specified a shorter Manipulator mast for this request and provided information for the additional weight the cart needed to withstand thrust and pull forces and ensure proper counterbalance.

Safety, precision and agility are the main features of this manipulator. It can be configured with custom-made end of arm gripping tools such as power grippers, vacuum grippers, magnetic grip & a variety of custom forks and hooks made to meet your handling needs.

Each Mirus manipulator is equipped with an assortment of industry leading safety features that will not allow the load to accidentally be released until it is supported properly or in the event the main air supply is cut off. Each Mirus manipulator can be installed on a freestanding column anchored to the floor, to a mobile self-standing base, from overhead dual rails or a dual bridge & runway system for increased area coverage.

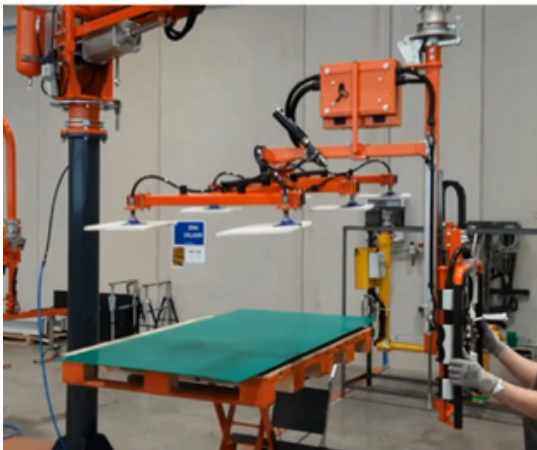
## Key Technologies

Mirus 100 Mirus Pneumatic Manipulator:

<https://asesystems.com/industrial-manipulators/mirus/>

Vacuum Cup Tooling:

<https://asesystems.com/vacuum-lifters/>



Free-standing Mirus shown for demonstration purposes