

A worker in a factory setting wearing a respirator and safety glasses, working on a large piece of machinery. The background is a blurred industrial environment with various mechanical parts and structures. The text is overlaid on a semi-transparent dark blue background.

**WAKEFIELD EQUIPMENT PRESENTS**

Designing Manufacturing Assembly Lines:  
**Horizontal Window and  
Door Assembly Line  
Sample**

# Manufacturing Assembly Lines

The assembly process is often one of the more labor-intensive operations where small improvements can result in big rewards.

# Manufacturing Assembly Line: Mistakes to Avoid

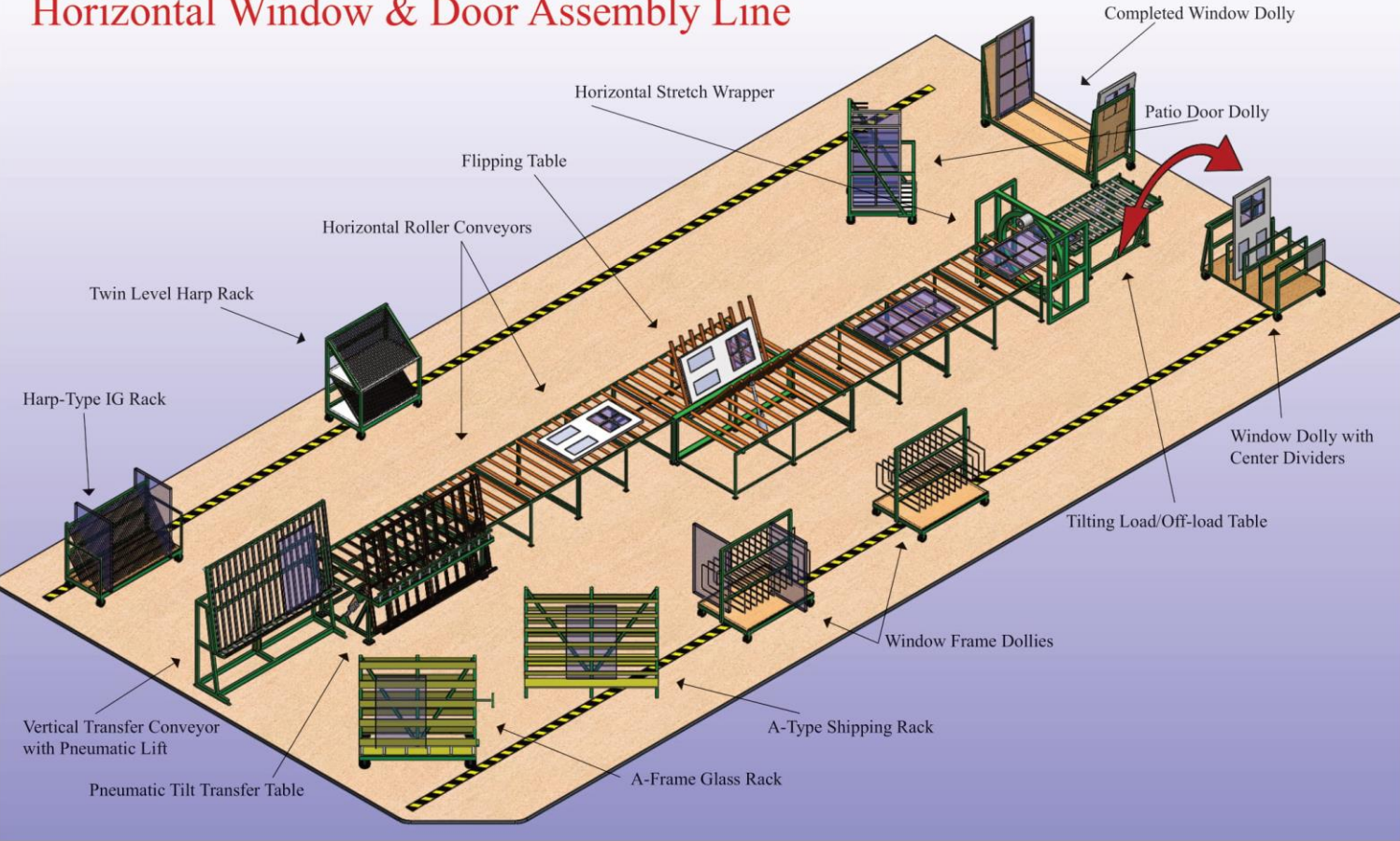
- ▶ **Poor Planning**
  - ▶ Planning must be deep enough to answer all possible questions about a new line.
  - ▶ Plan for flexibility and changes, since volumes and demand are variable.
- ▶ **Failing to incorporate material flow into the layout**
  - ▶ Create simple material delivery routes and pathways throughout the facility that connect the processes.
- ▶ **Bigger isn't always better**
  - ▶ Right-sized equipment and facilities are the key.

# Sample Horizontal Window and Door Assembly Line

- ▶ Joins together all elements of the production line into a systemized technological solution.
- ▶ Modular design to accommodate space constraints, material flow.
- ▶ Components are versatile and custom-built to specifications.
- ▶ Improves product flow and overall quality

# Horizontal Window & Assembly Line

## Horizontal Window & Door Assembly Line



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# Planning a Horizontal Window and Door Line:

## Sample Equipment List

- ▶ Harp-Type IG Rack
- ▶ Twin Level Harp Rack
- ▶ Vertical Transfer Conveyor with Pneumatic Lift
- ▶ Pneumatic Tilt Transfer Table
- ▶ Horizontal Roller Conveyors
- ▶ Flipping Tables
- ▶ Horizontal Stretch Wrapper
- ▶ A-Frame Glass Rack
- ▶ A-Type Shipping Rack
- ▶ Window Frame Dollies
- ▶ Tilting Load-Off Load Tables
- ▶ Window Dolly with Center Divider
- ▶ Patio Door Dolly
- ▶ Completed Window Dolly



## Horizontal Window Wrappers

Horizontal wrappers, sometimes known as “ringers”, come in a variety of sizes. Typically, a 60 or 72 inch ring is used. Input and output conveyers are common, although, some ringer operations use a direct feed of the window into the ring without pre-staging it on a conveyer.



## Dollies with Center Dividers

- Keeps product from sliding over
- Ideal for high units such as doors
- Post type dolly also used for I.G.
- Available in any size



## A-Type Shipping Rack

- Ideal for shipping and storing
- Bottom fork lift tongues for lifting rack
- Rubber protective sides and wood ledges standard
- Available in any size



### **Overhead Spacer Conveyors**

- Typically 8' to 20' feet long, but customization is available
- Hooks on 6" centers
- Travels 7' per minute
- Perfect for facilities with space constraints

### **Freestanding Conveyor**

- Great for storing and moving spacers
- Moveable to different locations in your facility
- Perfect alternative to an overhead conveyor
- Can be built and modified to your specifications and applications





# Contact Wakefield

Contact our sales team to learn more about how Wakefield Equipment can help you design your window and door assembly line!

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