

The background is a dark, blue-tinted photograph of an industrial setting. A worker in a dark uniform is visible on the right side, working with a large piece of machinery. The scene is dimly lit, with some highlights on the equipment. There are decorative green and blue geometric shapes in the corners: a green triangle in the top-left, a blue triangle in the top-right, and a large green and blue diagonal shape in the bottom-right.

WAKEFIELD EQUIPMENT PRESENTS

Designing Manufacturing Assembly Lines:
**Glass Free Fall
Equipment**

Glass Free Fall Equipment

Automating your flat glass picking and loading with a fully integrated free fall loading system can be a game changer.

The right glass handling equipment can:

- ▶ Improve overall efficiency
- ▶ Reduce breakage
- ▶ Save on actual labor costs and costly worker compensation costs
- ▶ Ensure consistent cuts
- ▶ Increase overall speed of production

Mistakes to Avoid When Choosing Glass Free Fall Equipment

- ▶ **Poor Planning**
 - ▶ Planning must be deep enough to answer all possible questions about what equipment is really needed.
 - ▶ How many racks do you need?
 - ▶ How much space do you have?
 - ▶ Plan ahead for flexibility and changes, since volumes and demand are variable.
- ▶ **Failing to incorporate material flow into the layout**
 - ▶ Create a simple material delivery route and pathway throughout the facility that connect your manufacturing processes.
- ▶ **Bigger isn't always better**
 - ▶ Right-sized equipment and facilities are the key.

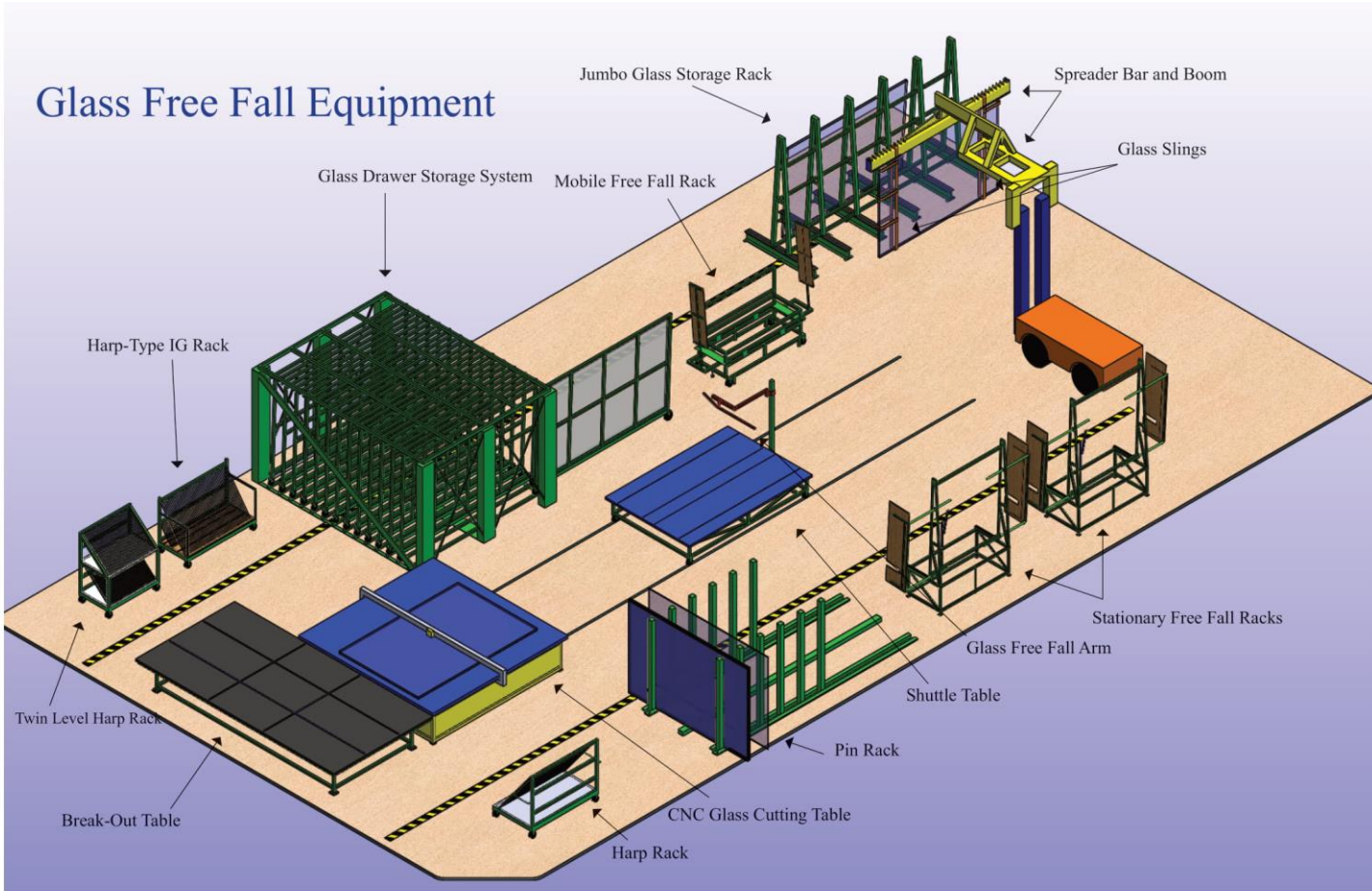
Wakefield: Sample Glass Free Fall Line

Our goal is maximum speed and efficiency in the smallest possible footprint.

- ▶ 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.

Glass Free Fall Equipment

Glass Free Fall Equipment



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Planning a Glass Free Fall Line: Sample Equipment List

- ▶ Twin Level Harp Rack
- ▶ Break-out Table
- ▶ Harp Type IG Rack
- ▶ Glass Drawer Storage System
- ▶ Mobile Free Fall Rack
- ▶ Jumbo Glass Storage
- ▶ Spreader Bar and Boom
- ▶ Glass Slings
- ▶ Harp Racks
- ▶ CNC Glass Cutting Table
- ▶ Pin Rack
- ▶ Shuttle Table
- ▶ Glass Free Fall Arm
- ▶ Stationary Free Fall Rack

Harp Type I.G. Dolly

- Diagonal harp type PVC covered divider rods
- Additional vertical rods used to stabilize glass
- Base & back covered with protective strips
- Has sides for shipping



Heavy Duty I.G. Dolly

- Steel swing-up fingers with PVC covering
- Grooved HDPE bottom strips for extra support
- All welded steel construction
- Standard floor lock and pull handle



Free Fall Arm

- Eliminates the need for manually dropping or holding glass
- Can be mounted in several different positions around free-fall table
- Independently drops different glass types from free-fall bases or drawer system
- Use with your existing system or part of new glass line from Wakefield Equipment



Glass Drawer Storage System

- Great for organizing and storing large size glass
- Available either floor mounted or table height
- Standard 10 drawer and larger models
- Will build to any size or customer specification



Window & Glass Manipulator

- Ideal solution that enables a single employee to handle the work of two
- Swiftly move glass units up & down, forward & reverse
- Will pick up and lay down horizontally
- Fabricated to handle up to 1,000 pounds
- Built and designed to your specifications



Lifting Bars

- Capacities of 4000 to 10000 pounds
- Handles stoces up to 17 feet
- Regular and low headroom designs
- Very competitively priced

Contact Wakefield

Contact our sales team to learn more about how Wakefield Equipment can help you design your glass free fall line!

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