

A worker in a factory wearing a protective mask and gloves, working on a piece of machinery. The background is a blurred industrial setting with various pieces of equipment and structural elements. The image has a blue tint and is overlaid with a green banner and text.

WAKEFIELD EQUIPMENT PRESENTS

Designing Manufacturing Assembly Lines:
**Insulated Glass
Assembly Lines**

Insulated Glass Assembly Lines

Insulated glass (IG) is a combination of two or more sheets of glass spaced apart with a spacer bar and sealed to form a single unit with one or more air spaces in between.

Benefits of IG include:

- ▶ Energy savings
- ▶ Sound insulation
- ▶ Reduced condensation

The major manufacturing processes for insulated glass includes: glass cutting, glass edging, glass washing, spacer assembly, sealing, and gas filling.

Insulated Glass Assembly Line: Mistakes to Avoid

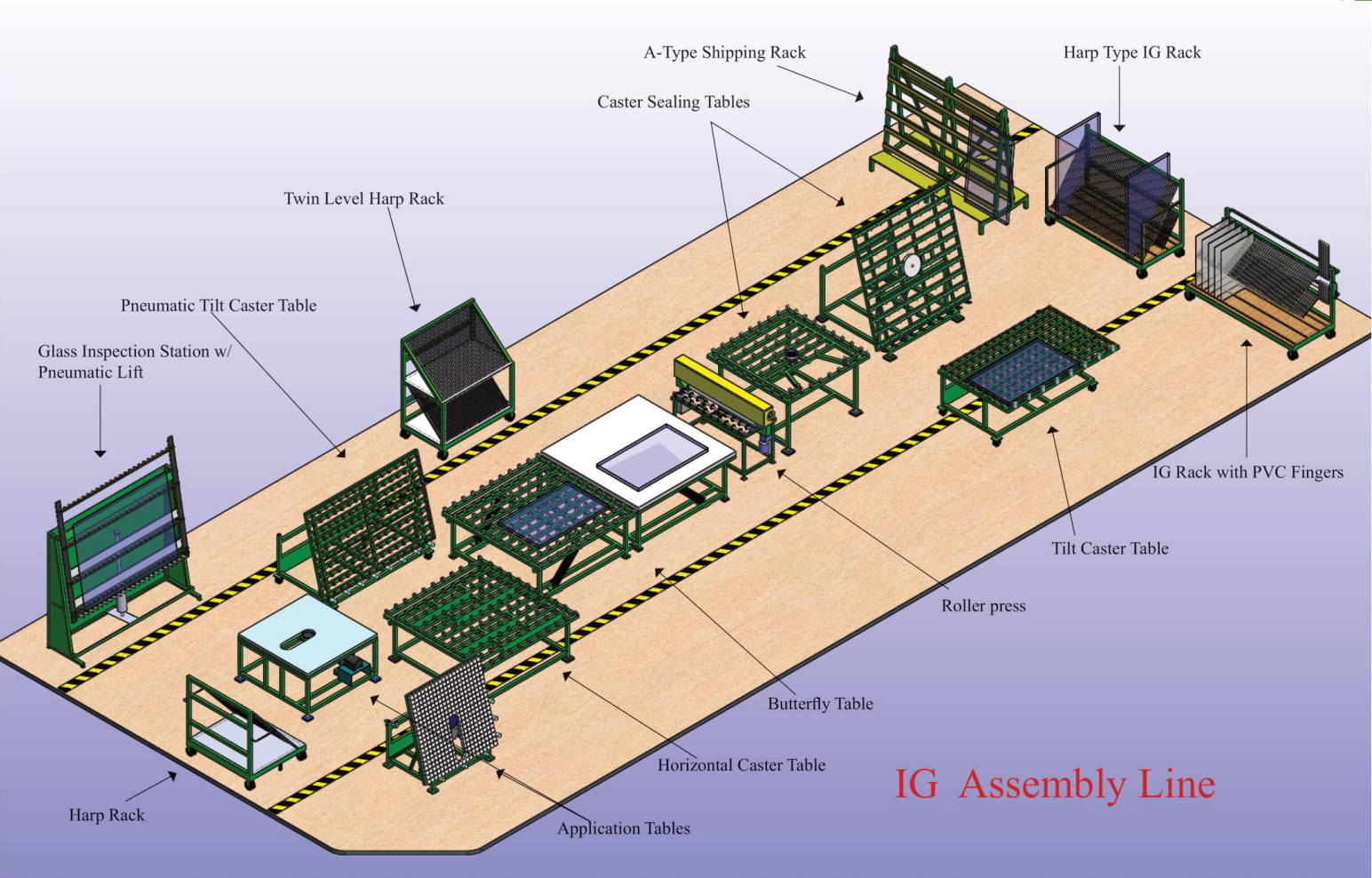
- ▶ **Poor Planning**
 - ▶ Planning must be deep enough to answer all possible questions about a new line.
 - ▶ Plan for flexibility and changes, since volumes and demand are variable.
- ▶ **Failing to incorporate material flow into the layout**
 - ▶ Create simple material delivery routes and pathways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

Wakefield: Sample IG Assembly 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.

IG Assembly Line



IG Assembly Line

WAKEFIELD EQUIPMENT

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Planning an IG Assembly Line: Sample Equipment List

- ▶ Harp Rack
- ▶ Twin Level Harp Rack
- ▶ Tilt Caster Table
- ▶ Butterfly Table
- ▶ Caster Sealing Tables
- ▶ Application Tables
- ▶ Horizontal Caster Table
- ▶ Roller Press
- ▶ Tilt Caster Table
- ▶ Harp Type IG Rack
- ▶ A-Type Shipping 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



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



Butterfly Table

- The centerpiece of an efficient I.G. unit manufacturing process
- Custom built to customer specifications
- Short cycle time and fully automated operation
- Reduce waste and improve accuracy



Sunburst Table

- Non-marking top with grid alignment marks
- Create half-rounds and other sunburst patterns in your I.G.
- Eliminate wasted I.G. units
- Available in any size



Custom Power Conveyors

- Ideal for use in any tempering or cleaning operations
- Options available for XY transferring
- Available with donut rollers, belts, steel and PVC rollers
- Built to your specifications



Caster Sealing Tables

- A good way to seal edges of I.G.
- Center suction cup holds glass in place
- Non-Marking Swivel Casters on Top
- Built with various caster spacing
- Available with different platform surfaces, as a standalone or with extendable sides
- Standard Spacing of 6", 7" or 8"
- Adjustable height and various sizes



Contact Wakefield

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

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