



eXensys Micro Vertical Solution

Micro-Vertical – Glass Products

Agenda

Industry Overview

Industry Characteristics

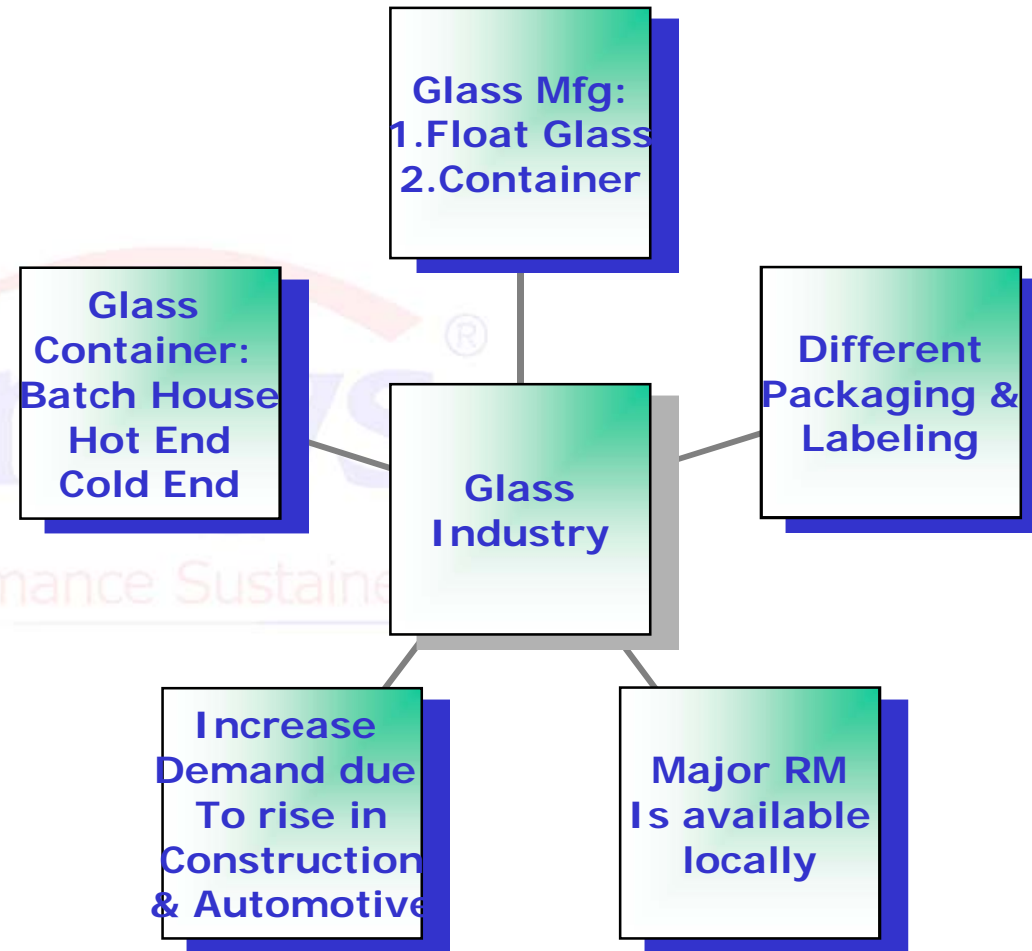
Key Processes 'n' Challenges

eXensys Best Practices



Industry Characteristic

- Glass production is divided into two types of glass: sheet glass made by the Float glass process and glass container
- Modern glass container factories are broadly divided into three parts: the **batch house**, the **hot end** and the **cold end**.
- The *batch house* is concerned with raw materials. In the *hot end* are furnaces, machines that produce the containers (forming machines) and annealing ovens. In the *cold end* there are the inspection and packaging equipment.
- Float glass is a sheet of glass made by floating molten glass on a bed of molten tin. This method gives the sheet uniform thickness and very flat surfaces. Modern windows are made from float glass.
- The majority of raw materials required by the industry are available locally, providing excellent scope for growth and development
- There has been an increase in demand for float glass as a result of increased investment from the construction and automotive sectors.



Key Processes

- Batch Process (Raw Material Feed)
- Recipe Management (Production/Packaging)
- Process Parameter and Control
- Research & Development
- Quality Control
- Inventory and Logistics
- Accounts Management & Legal\Statutory Compliance
- Preventive & Breakdown Maintenance

Challenges\Pain Areas

- Key information such as financial and production details
- Lack of visibility of the shop floor load
- Little flexibility in scheduling – not allowing to determine where potential problem existed and to create corrective solutions on the production line before slowdowns occurs
- Delivery dates were missed because of lack of inventory control



S.No	Pain Areas	Why do companies fail?	eXensys Best Practice
1.	Key information such as financial and production details	<ul style="list-style-type: none"> ➤ Lack of proper integration between Manufacturing and Head Office ➤ Mismatch of information generated by production plants sent to the corporate office 	eXensys MIS, helps the top management to get information from its plants on a daily basis
2.	Lack of visibility of the shop floor load	Lack of computerized system to see the load	Work center load graphs and reports for better analysis of the load at shop floor any time and without any delays to assist in faster decision making
3.	Little flexibility in scheduling – not allowing to determine where potential problem existed and to create corrective solutions on the production line before slowdowns occurs	<ul style="list-style-type: none"> ➤ No system to identify bottleneck resources ➤ Not able to reschedule the remaining work 	<ul style="list-style-type: none"> ✓ Strong Planning Module to check the load on bottleneck resources ✓ Rescheduling process to arrive at the revised dates of production
4.	Delivery dates were missed because of lack of inventory control	Poor Supply Chain Planning	Managers have the most current inventory available so that they can set the most competitive pricing that ensures profitability as well

