



eXensys Micro Vertical Solution

Micro-Vertical – Precision Equipments

Agenda

Industry Overview

Industry Characteristics

Key Processes 'n' Challenges

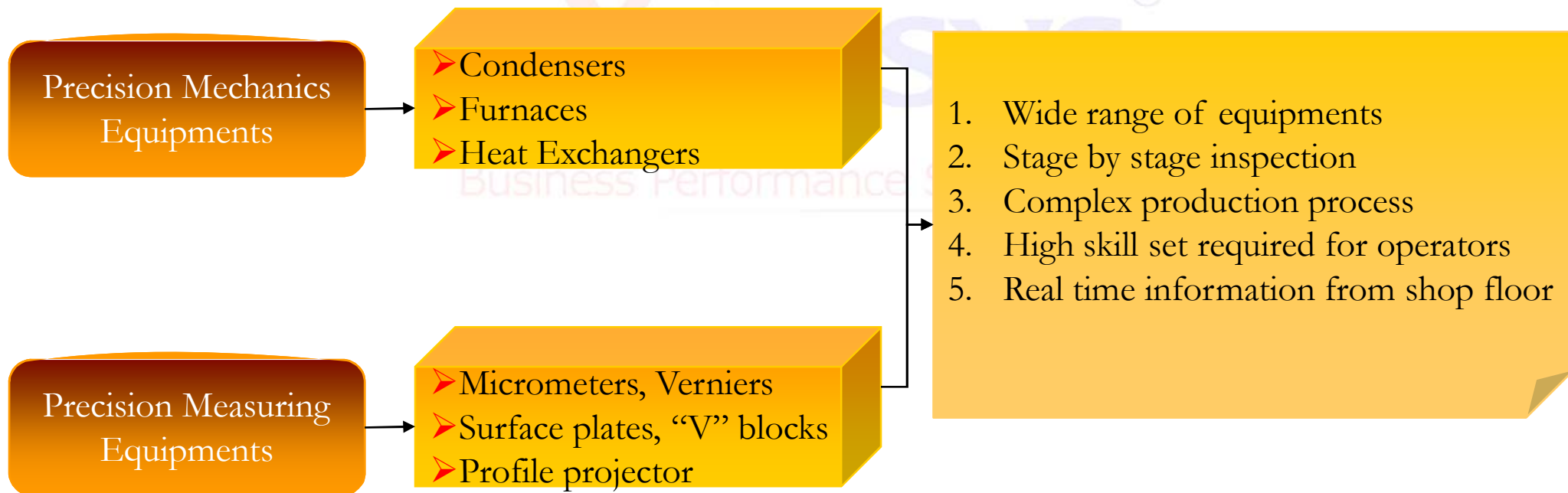
eXensys Best Practices



Industry Overview

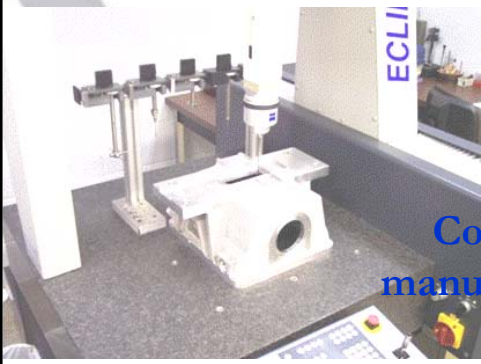
Micro-Vertical – Precision Equipments

This industry involves working with a wide range of equipment types. The equipments are produced with greater care and stage by stage inspection during production process. The raw materials used have dynamically changing dimensions. The production processes involved are complex and demands for a high level of skill set from operators. This industry requires real time information of shop floor to control the execution cycle.



Industry Characteristics

Micro-Vertical – Precision Equipments

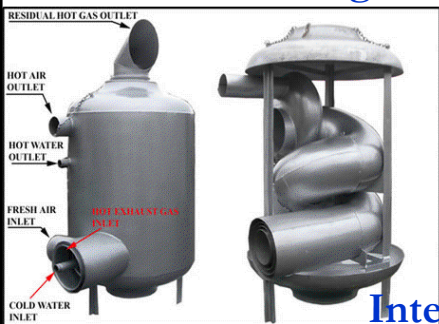


Complex manufacturing

Auto measuring equipment

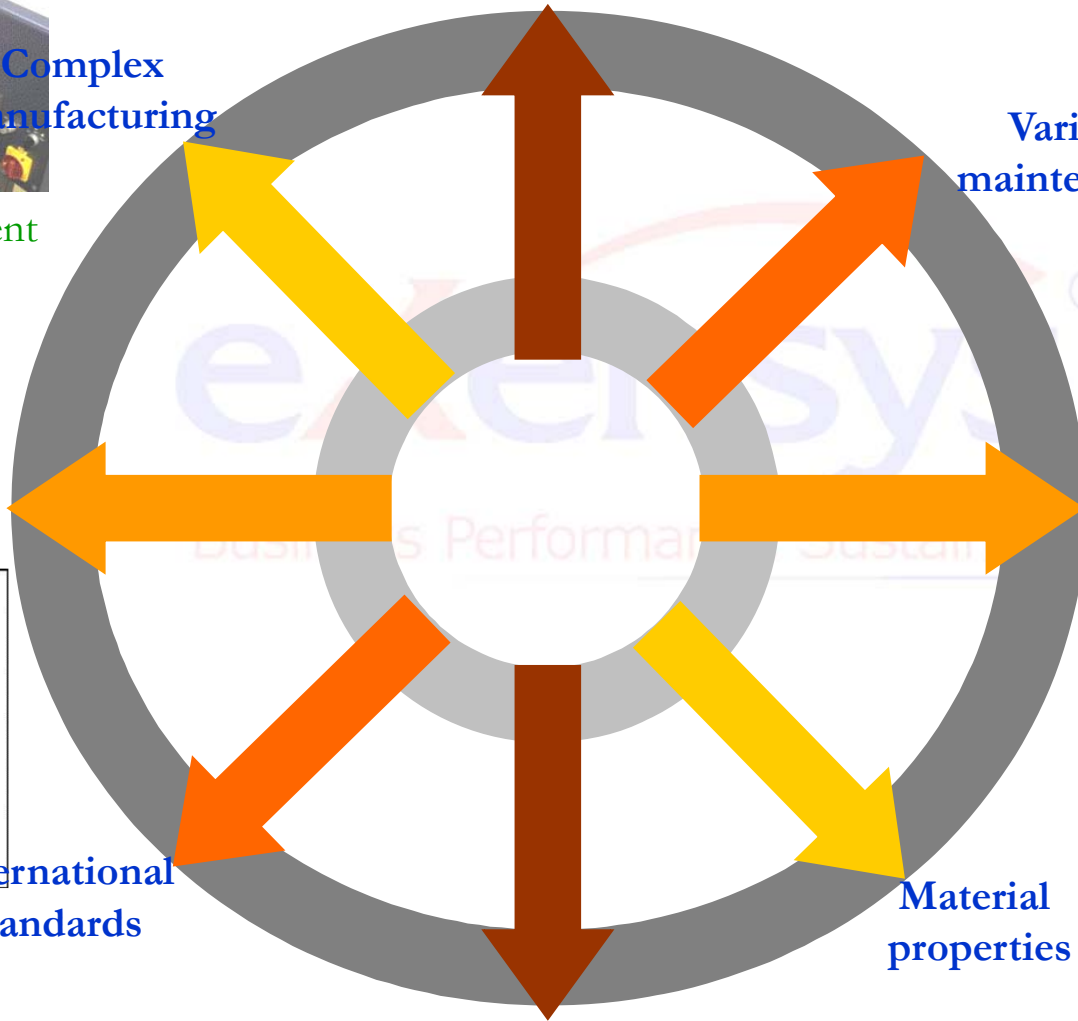


Measuring Devices



Heat Exchanger

International standards



Wide varieties of products

Variant maintenance

Different design

Continuous engineering

Material properties

Patents



Condenser

Key Processes 'n' Challenges

Micro-Vertical – Precision Equipments

Key Processes

- Order processing, Scheduling & Delivery
- Engineering BOM & Routing preparation, approval from customer
- Identification of critical resources through Rough-cut Capacity Planning
- Purchase schedule to vendor from MRP
- Sub-contractors purchase order generation, tracking for completion of operations
- QC inspection at incoming, sub-contracting receipt, in-house production
- Preventive & predictive maintenance schedules

Challenges\Pain Areas

- Optimum utilization of production resources
- Detailed capturing of cost of production
- Maintenance of QC result and pegging details
- Plant maintenance information for critical equipments
- Monitoring of sub-contractor operation

eXensys Best Practices

Micro-Vertical – Precision Equipments

S.No	Pain Areas	Why do companies fail?	eXensys Best Practice
1	Optimum utilization of production resources, unable to capture cost of production details	<ul style="list-style-type: none"> ➤ No information on production orders ➤ Not able to reschedule ➤ Labor / over heads cost not known 	<ul style="list-style-type: none"> ✓ Improved efficiency of shop floor operations ✓ Optimum utilization of manufacturing resources ✓ Monitors new product development ✓ Detailed production cost calculations
2	Maintenance of QC Results and pegging details	<ul style="list-style-type: none"> ➤ No incoming inspection ➤ No procedure for in-house QC ➤ No process to track SPC ➤ No importance for scrap details 	<ul style="list-style-type: none"> ✓ Test plans as per production process ✓ History of deviation note ✓ Process capability measurements ✓ Reduction of scrap
3	Maintenance for Critical Equipments	<ul style="list-style-type: none"> ➤ Maintenance only on break downs ➤ No planning for spare parts ➤ No information of time taken for maintenance 	<ul style="list-style-type: none"> ✓ Machine maintenance history ✓ Schedules of preventive and predictive maintenance ✓ MTBF information ✓ Spare parts planning

