

LEVERAGING AUTOMATION FOR OPTIMISING BUSINESS PERFORMANCE

RAJIV RANJAN
PRESIDENT, TEXTILES,
MAFATLAL INDUSTRIES LTD

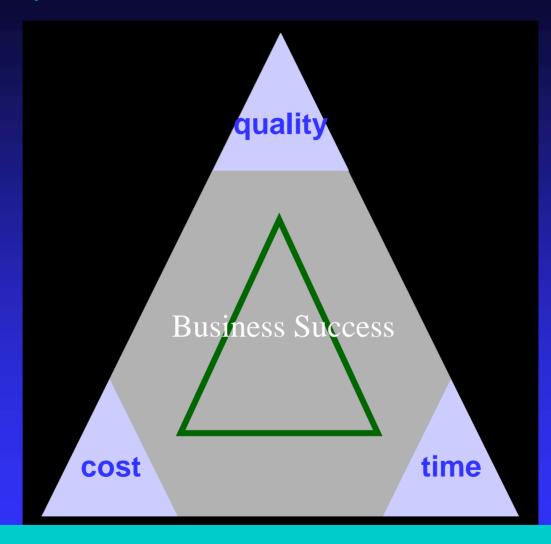




- Optimum quality
- Lowest cost
- Shorter time-to-market
- Automation : No more a choice but a necessity

Today's Business Environment





It is important to simultaneously optimize quality, reduce the cost and shorten the time-to-market.



automation: use or introduction of automatic equipment in a manufacturing or other processes or facility

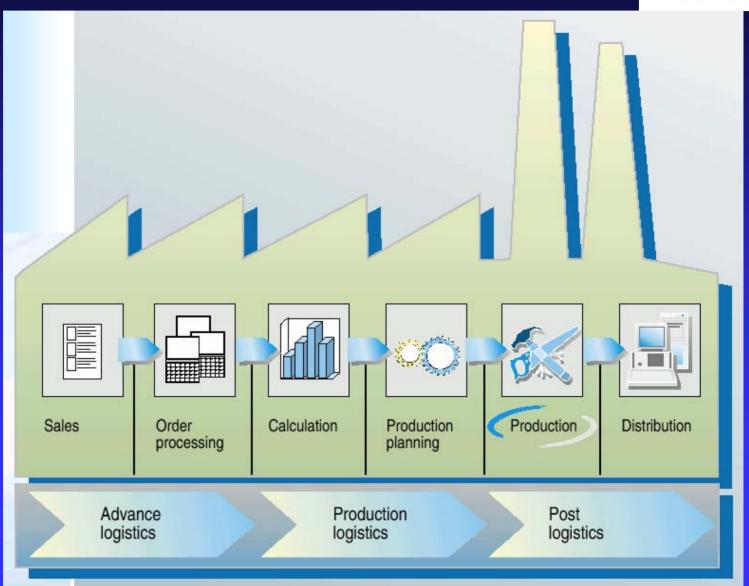
OXFORD ENGLISH DICTIONARY



- Plant and process automation
- Marketing, sales and logistics
- Finance and accounts
- HR
- Complete integration of above functions
- Effective decision making

AUTOMATION FOR BUSINESS PERFORMANCE OPTIMISATION



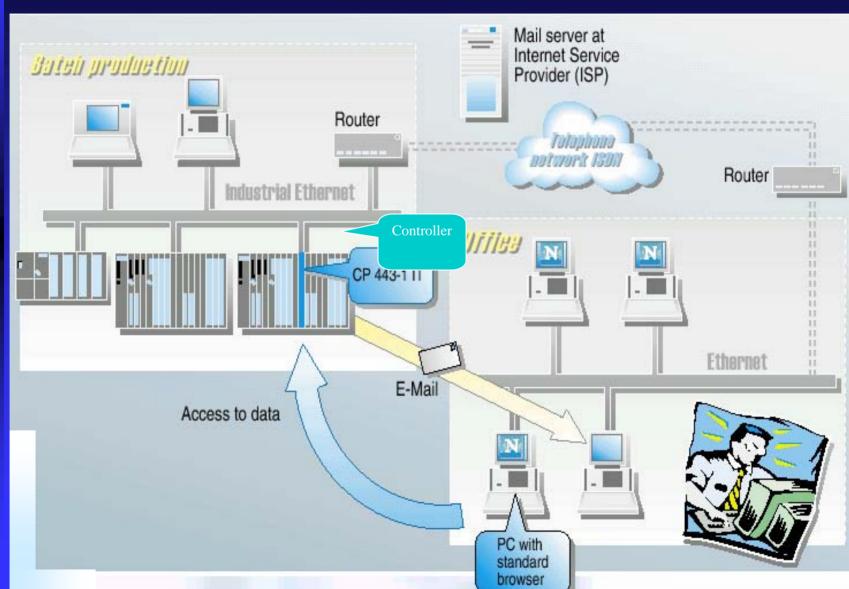


PLANT AND PROCESS AUTOMATION TECHNOLOGIES

- Raw material upgrading
- Effective carding and drawing with autolevellers
- Microprocessor controls at every stage-e.g. speedframes,ringframes, auto doffing at R/F, winding(including linkconers), and OE spinning
- Equipment MIS

AUTOMATION FOR BUSINESS PERFORMANCE OPTIMISATION





PLANT AND PROCESS AUTOMATION TECHNOLOGIES

- Controlling size take up
- Microprocessor controls at weaving: Dobbies, jacquards, pick-at-will etc..
- High pick insertion rates multiphase weaving
- Quick beam change systems

PLANT AND PROCESS AUTOMATION TECHNOLOGIES

- Enhancing quality and productivity at fabric processing stage
- Automatic controls



PLANT AND PROCESS AUTOMATION

- Flexibility
- Energy efficiency
- Higher productivity Qualitative and quantitative advantages
- Lower costs



TRANSPORTATION THROUGH THE PLANT

- Automatic blending and chute feed at blowroom
- Can transportation
- Roving transportation
- Linkconers





- Digital controls for total control and recording of humidific conditions
- **■** Eliminates human errors
- Accurate maintenance of records 24 x 7

WAREHOUSING AND TRANSPORTATION OF GOODS

- Enhancing warehouse efficiency through Barcoding
- Simplifies locating of goods
- Improves distribution logistics
- Enables data mining and maintaining accurate database

ADDING VALUE THROUGH INTEGRATED ERP SYSTEMS

- Integrated ERP systems
- Real time supply chain/purchasing control by integrating with manufacturing
- Integrating sales, order processing, production planning and distribution
- Using the net to keep customers informed order and delivery status tracking
- Enhances customer satisfaction



ADDING VALUE THROUGH INTEGRATED ERP SYSTEMS

- Integrating finance/accounts with purchasing and sales invoicing
- Real time information on consumption and inventory
- Real time information on receivables, outstandings, cash flows and bottom line
- Control on WIP



RECAP

- We have covered a long distance from mechanisation to automation
- However rapidly developing new technologies are changing the rules of the game



RFID TECHNOLOGY

- Will revolutionise management of supply chain, manufacturing, warehouse management, transportation and distribution logistics
- Major usage in the apparel industry

WAREHOUSING AND TRANSPORTATION OF GO



Warehouse logistics

Production plants

















Distribution logistics

Transport, Freight and traffic





CAMERA VISION TECHNOLOGIES

- Automates grading of fabric thus eliminating human error
- Improves the fresh packing percentage



LEAPFROG

- Will change the global economics in apparel manufacturing
- May signal the end of advantage that `low cost countries` enjoy in apparel manufacturing



MORAL OF THE STORY

Automate or perish



THANKYOU