

RECP Best Practices Catalogue

*Production management system optimisation
and automation of dyeing machines*

Developed within the framework of MED TEST II



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



The SwitchMed Programme is
funded by the European Union

Best Practice - Production management system optimisation and automation of dyeing machines

SECTOR:	Textile & Readymade Garments
Branch:	Finishing of textiles
CATEGORY	Process control or modification
APPLICABILITY	Process
COMPANY SIZE	20



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Description of the Problem (Base Scenario):

- The current production management system is manually operated and does not allow for data analysis or proper insert planning.
- The machines at the company are all automated, but the machines' programmes are still not completely consistent with the initiation protocols, And because of this, the operators often intervene to modify pitches and data on the machines' control panels.
This results in frequent downtimes and human errors.
Automated machines are designed to rectify such failures.

Description of the Solution

- This project consists of collecting current computerised information from the receipt of raw materials, to the different stages of preparation and treatment, in order to interpret it on a computerised dashboard in real time.
- Automatic programming allows to:
 - Follow and monitor the flow of materials
 - Reduce processes duration
 - Reduce operators' interventions
 - Enhance productivity
 - Reduce insert failure rates



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Economic Gains

Economic gain: € 50,256/year

Environmental Gains

Water gain: 900 m³/year
Energy gain: 90 MWh/year
Pollution reduction: 23 tons CO₂

Health and Safety Impact

Enhancement of work conditions (reduced human intervention)



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Capital Investments & Financial Indicators	€ 39,130 10 months
Supplier Information	Production monitoring software development offices
Other aspects	Productivity enhancement
Implementation	Measure being implemented



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