

RECP Best Practices Catalogue

Replacement of winding 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 - Replacement of winding machines

SECTOR: Textile & Readymade Garments

SUBSECTOR: Manufacture of other textiles

PRODUCTS Upholstery and clothing, indoor and outdoor furniture

CATEGORY Technology upgrade/Eco-innovation

APPLICABILITY Process

COMPANY SIZE 160



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Description of the Problem (Base Scenario):

The age of the winding machines in place is generally quite advanced and even if they are still in good condition, their replacement must be anticipated. This includes: improving the performance of the "thread dyeing" department, in particular by avoiding thread losses; a drop in productivity due to machine downtime, and the decline in quality after dyeing.

Description of the Solution

The winders should all be replaced by new machines that can ensure better spool quality. This would enable, according to the process experts, a gain of 2-3 quality points:



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Economic Gain	A quality gain estimated by international process experts at 2-3 points of improvement. It is important to note that a "win" quality point (at the current production level) corresponds to a savings estimated around € 80,000. A total of € 160,000 to € 240,000 in savings per year
Environmental Gain	Reduction of energy consumption for dyeing. These gains are not precisely quantifiable. Saving energy also means reducing CO ₂ emissions as agreed under the Convention on Climate Change.
Health and Safety Impact	None



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Investment & Financial Indicators	High Cost <ul style="list-style-type: none">• € 300,000 - 60 spindle winding machine for the dyeing preparation• € 300,000 - 60 spindle winding machine for the weaving preparation after dyeing (Time for Return on Investment: 3 years)
Suppliers	Imported
Other aspects	Positive impact on quality
Implementation and new indicator	Scheduled for 2019



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