

RECP Best Practices Catalogue

Replacement of cutting presses with automatic cutting machines

Developed within the framework of MED TEST II



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



The SwitchMed Programme is
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Best Practice - Replacement of cutting presses with automatic cutting machines

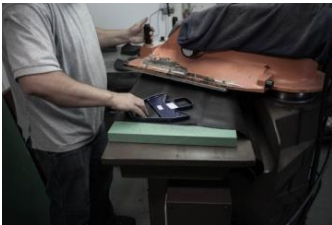
SECTOR:	Leather
Branch:	Manufacture of footwear
CATEGORY	Technological upgrade - Eco-innovation
APPLICABILITY	Process
COMPANY SIZE	509 Full-time Employees



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Description of the Problem (Base Scenario):



At the present time, the company uses cut outs for the cut of the leather above and the lining of the shoe upper; they manufacture about 50,000 cut outs a year and at the end of the year, they throw out about 40,000 of those. The technology currently used is pneumatic, with vibrating blade machines. The remaining cut outs for annual production are no longer usable in the following year because the items are no longer in fashion, with the appearance of new fashion trends and new models of shoes.

Description of the Solution



The operation consists of replacing traditional cutting presses with automatic cutting machines

The whole system includes a software and a table with devices used to cut materials.

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Economic Gains

€ 240,000, an amount equivalent to the labour and the purchase of the raw material as well as the ancillary products for manufacturing the cut outs. This is an estimated gain of 24%.

Environmental Gains

75 % reduction in metal waste.
12 tons of steel waste and sheet metal from residual cut outs.
Zinc tip waste from the galvanizing operation is approximately 80 kg/year.

Health and Safety Impact

Preventing accidents on the hydraulic cutting machine



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Capital Investments & Financial Indicators	1 Cutting Machine = € 50,000 20 Machines = 20 x € 50,000 = € 1,000,000 Time for Return on Investment = 4.5 years
Supplier Information	Imported
Other Aspects	none
Implementation	Measure already implemented but the company bought only 2 machines.



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