

# RECP Best Practice Catalogue

*Flow measurement of final product and  
recycled products*

*Developed within the framework of MED TEST II*



UNITED NATIONS  
INDUSTRIAL DEVELOPMENT ORGANIZATION



The SwitchMed Programme is  
funded by the European Union

# Best Practice - Flow measurement of final product and recycled products

<b>SECTOR:</b>	<b>Food &amp; Beverage</b>
<b>SUBSECTOR:</b>	Bakery and farinaceous products
<b>PRODUCTS</b>	Couscous (fine and medium), short pasta (small pellets, Tlitli, elbows of different sizes, vermicelli, macaroni, bird tongue, snail).
<b>CATEGORY</b>	Process control or modification
<b>APPLICABILITY</b>	Process
<b>COMPANY SIZE</b>	147 employees



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# Best Practice - Flow measurement of final product and recycled products

## Description of the problem (Base scenario):

It has been found that critical parameters such as final product throughput and post-mix feed rates are not recorded or tracked. This situation has a negative influence on the control of the production process and leads to an increase in losses and rates of recycled products and consequently a decrease in productivity. This last is estimated to be 1%

## Description of the Solution

Measuring flow of the final product and recycled products for process monitoring and control, by installing a "Solid Flow" or "Pico Flow" system. The results of analyses combined with the use of statistical means enable a better control the process and increase in productivity.



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## Economic Benefits

From feedback (from other companies), an increase in productivity of around 1% is possible one year after implementation, which means:

- 1% more product with the same energy input
- 1% more product in the same amount of time
- Reduced water consumption (reduction in recycled dry product)

The economic benefit is estimated at 1% of turnover, or € 14,800/year

## Environmental Benefits

Energy consumption reduced by 1%  
Water consumption reduced  
CO<sub>2</sub> emissions reduced

## Health and safety impact

Not relevant



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<b>Capital investments &amp; financial indicators</b>	Cost: € 20,000 for 3 units with software Return on investment: 1.4 year
<b>Suppliers</b>	Imported
<b>Other aspects</b>	Quality stabilisation
<b>Implementation</b>	



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