

RECP Best Practices Catalogue

*Improved set up of White Dusting
Booths and Black and Blue Tints*

Developed within the framework of MED TEST II



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



The SwitchMed Programme is
funded by the European Union

Best Practice - Improved set up of White Dusting Booths and Black and Blue Tints

SECTOR:	Manufacture of basic metals, electrical equipment, motor vehicles, fabricated metal products
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Branch:	Manufacture of parts and accessories for motor vehicles
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CATEGORY	Process control or modification
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APPLICABILITY	Process
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COMPANY SIZE	200
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Description of the Problem (Base Scenario):

The paint station has a white powder coating metal booth and two powder coating metal booths (1 black and 1 blue). The booths are made of steel, which does not facilitate cleaning at the end of each application and during colour changes, and causes issues of inconsistencies of the deposited powder layer thicknesses as well as significant powder losses.

Description of the Solution

The improvement measure consists of replacing the three booths with only two plastic booths (sandwich walls); a white powder booth and a single booth for dark shades. The booths will each be provided with a powder tank per tint, with a constant level detector, automatic powder transfer from the final filter to a sieving machine (particle removal) and an automatic powder transfer to continuously feed the powder tank from the carton (no manual filling, no dust)

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Economic Gains

€ 66,300

- Savings of about 8,500 kg of powder
- Time savings of 2/day x 220 days x 15 minutes = 6,600 minutes/60 = about 110 hours of production/year
- Reduction of the cost of treatment of lost powder

Environmental Gains

- Reduction of 8,500 kg of powder consumption, or 25% of annual consumption
- Reduction in the treatment of lost powder

Health and Safety Impact

Improvement of work conditions



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Capital Investments & Financial Indicators	€ 35,000 Time for Return on Investment: 0.6 year
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Suppliers Information	• Imported
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Other Aspects	Improvement of Productivity and Quality
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Implementation	Carried out
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