

Robotics + Automation Instrumentation Industrial Electricity Glassman Asia, Bangkok, January 2018

How to move from classic industry to Industry 4.0

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1. Context

In 2011 request from Moerdijk's Ardagh Group plant in Netherland :

- Glass container industry is automatized for a long time for mass production.



ocabelec s.a.

1. Context

There remains an area where operation is full manual made by operators:

The **SWABBING** = lubrication of blanks molds



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because of :

ocabelec sa

1) Highest labour cost for operators.

2) Highest level of productivity

They wanted to remove the last manual operation, to anchor their facility in Netherland :

- 3) Remove manual swabbing
- 4) Increase productivity
- 5) Short pay-back

So we create the Swabbing-robot :







The swabbing-robot: key to enter Industry 4.0

- 1) Flexibility: different model of bottles are produced simultaneously
- 2) Efficiency: control of quantity of oil sprayed and reproductivity
- 3) Agility: to be adapted easely for new models of products
- 4) New devices added to collect information about production parameters
- 5) Connected to the world.



The swabbing-robot: the future

- 1) Recording parameters about product.
- 2) Exchanging those parameters to the cloud
- 3) Extractions of trends product oriented
- 4) Feedback to plant to improve productivity
- 5) Helping plants to start new products collecting standards parameters from cloud





3. Conclusions

1) Ardagh Moerdijk's plant is full equipped by our robots

2) 95% of manual swabbing has been removed

3) They increase productivity : 2%

4) pay-back: less than one year

5) 12 robots already sold in the world in 18 months

3. Conclusions

Thank you for your attention

