2015

Swabbing Robot Combines Productivity and Operator Safety the next step in to the automatisation in the glass industry



Introduction

- Heye works with partners on the implementation of a swabbing robot in the production process.
- First two installations have been successfully implemented in two high speed lines at an Ardagh plant and are currently in permanent operation.
- The second robot is much smaller than the first version.



Version 1 Version 2





Customer benefits

- No container rejects after swabbing
- No necessity to use swabbing program
- 75% savings on lubricant
- High safety for operators
- Stable and repeatable volume thickness and location of swabbing agent in the process.
- More time for operators to focus on optimization and defect correction.



Version 2

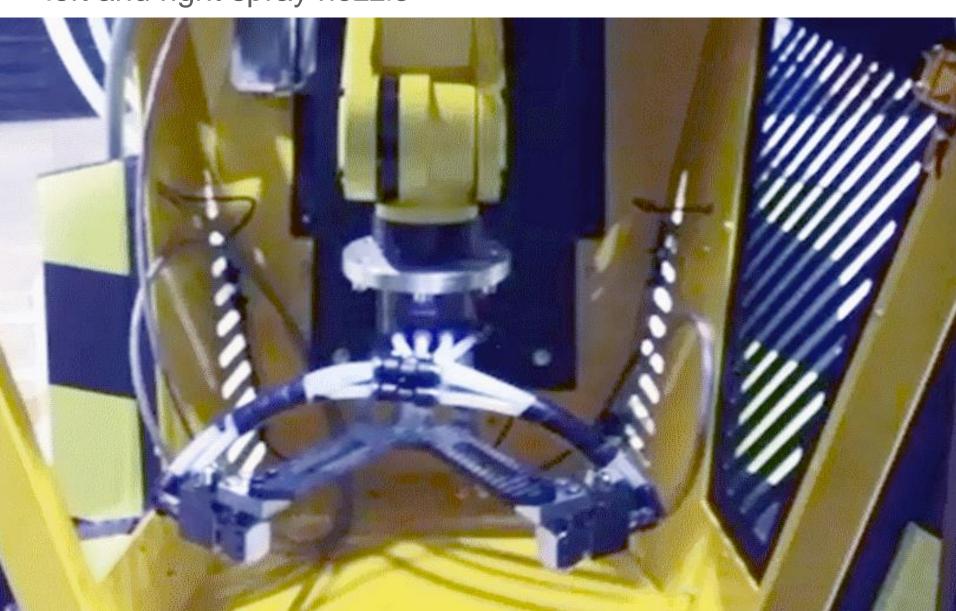
Interface adaptation of robot to IS timing system





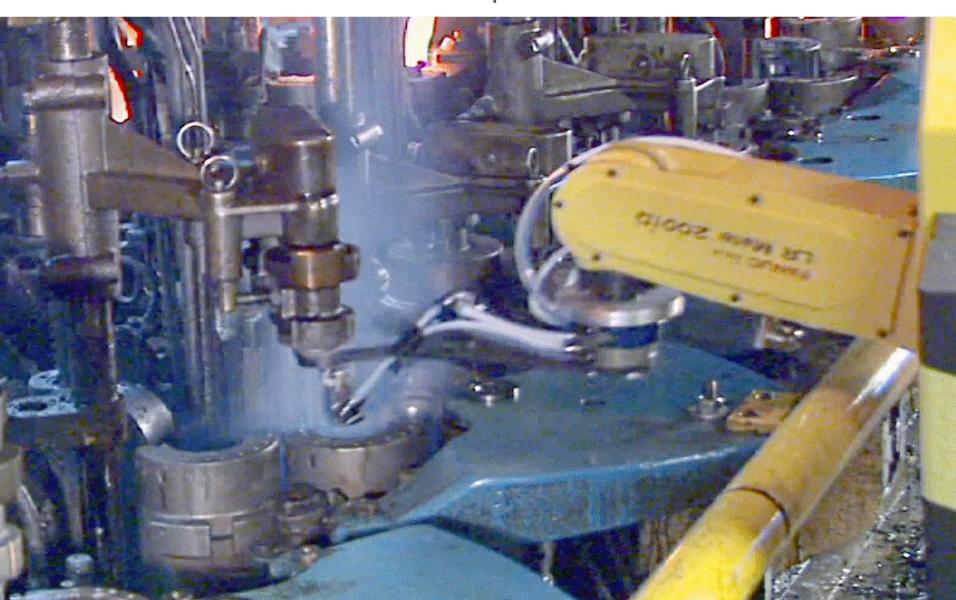
Head

left and right spray nozzle



Spraying

no influence or disturbance of production flow



Highlights of latest version

- Robot is smaller, 25 kg instead of 125 kg
- Optimized cable guide design on Heye machines
- Safety cage
- Zero station
- Clean design
- Several parking places
- Left and right blank swabbing
- special program to spray neck ring
- Possible monitoring from IS-operator room



Beam

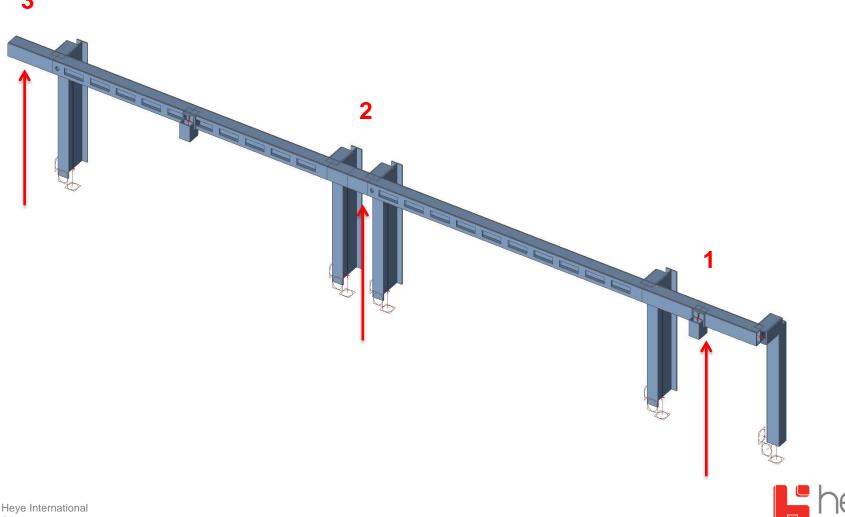
Gear rack





Beam with parking positions

Example of 20 section machine; tandem 2 x 10 section



New safety cage

Compact design and signal lamps



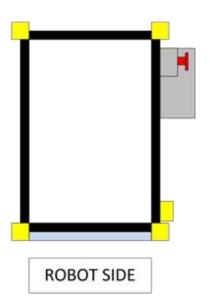


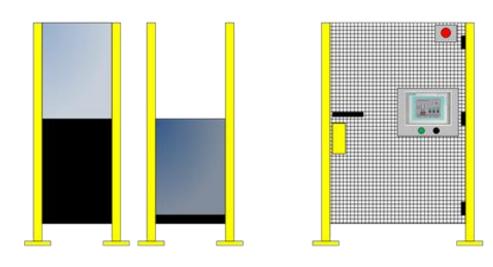




Zero station

 maintenance position area outside the machine for job change alignment and programming of the swabbing robot with HMI touch screen







THANK YOU VERY MUCH!

