

# Success in Swabbing Robots

Novaxion is an automation specialist in the glass container manufacturing industry and has more than 50 Swabbing Robots installed around the world.

The glass container manufacturing industry aims for higher quality and productivity as well as a secure work environment.

With extensive experience and years of partnership with major glass container manufacturers, Novaxion provides solutions for swabbing blank moulds on IS Machines. The Swabbing Robot SR200 has been deemed a success.

For example the latest Swabbing Robot SR 200 was integrated onto an 8-section Emhart IS machine in Piramal Glass's Missouri, USA plant.

The Piramal group is now investing in an extra five Novaxion swabbing robots.

A new version 1.2 has just been developed (Pic.1). It includes:

- A new design with a better integration of the oil tank and other devices, and protection of the cables.
- The Novaxion SwabTool software revision v4.0 gives enhanced possibilities to users to view, edit and apply independent swabbing settings on each section.

According to customers needs and to support specific productions such as flexible multi-gob systems, the new version allows the settings optimisation on one section before applying them on all the machine.

## Benefits

The installation of Novaxion Swabbing Robots has the following benefits:

- More product quality: constant swabbing and uniform lubricant application into the mould allow less reject of bottles and constant glass distribution.
- Time gains: quick installation, swabbing on the fly no section stops.
- Saving on swabbing oil by 85%.
- Saving on labour costs: two operators per 24 hours.
- Other savings concern swabbing sticks and waste treatment for used swabbing sticks.

- Better working conditions with better air quality and increased work safety.

These savings and benefits add to the increase of the 'pack to melt' ratio from 2% to 5% (depending on the factories and the type of production) enables a payback within 12 to 18 months.



## Testimonies

Jason Alves, Project Manager Engineering of Gallo Glass Company, North America's largest wine and spirits facility, reports about its partnership with Novaxion.

The company has already bought a Swabbing Robot, and recently placed an order for three extra robots:

"The installation of our first swabbing robot in 2017 was completed on an Emhart IS machine manufacturing blow and blow wine containers for the Californian market. With the support and expertise of Novaxion engineers, Gallo has seen substantial benefits from the technology.

"Bottle quality has improved, while swab oil use has decreased by around 70% providing housekeeping improvements.

"Another key benefit of the technology is improved safety as employees do not need to interact with the forming machine to swab the blank side.

"During an upcoming furnace rebuild project, Gallo Glass will install three more Novaxion robots demonstrating its commitment to the technology."

Erman Ülken, Production Engineer of Park Cam in Turkey, gives credit to Novaxion for its efforts depending on customer demands: "Park Cam has four swabbing robots in four Bottero 8+8 tandem lines. Robots proved their benefits in a few weeks after commissioning.

"If we would choose some key words to describe the robots we can simply choose safe movements, standard swabbing, thrifty oil consumption, clean environment."

Mr Ülken concluded: "Novaxion robots assisted Park Cam in retaining high quality and efficiency. We are happy to be a part of this partnership."

## New developments

In 2017, Bucher Emhart Glass and Novaxion worked together to implement a new hanged-up Swabbing Robot version V2.0. This new robot was integrated into a Bucher Emhart Glass AIS machine at a European container plant manufacturer.

This new hanged-up Swabbing Robot version V2.0 is already a success:

- the integration of the robot on the blank side panel is good.
- the system is compact and easy to clean. No visible cables and no protection cage are needed.
- the robot's movements are smooth and operate without any vibrations.

The new hanged-up version V2.0 is supplied by Bucher Emhart Glass. ■

Meet us at Glasstec Hall 13 / A77

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