

From gathering to swabbing

NOVAXION leads the transition



In 2006, just two years after its founding, Novaxion launched its groundbreaking high-performance Swabbing Robot. A sophisticated solution, it was engineered to apply a specially formulated swabbing spray to glass moulds - significantly enhancing production quality and consistency. Specializing in robotic technologies tailored for the glass industry, Novaxion went on to reach a pivotal milestone in 2019 when it became a full member of the Rondot Group - a strategic partnership that further bolstered its innovation and global reach. Now a pioneer in the field, today the company offers a distinctive and proven solution for the automatic swabbing of blank moulds and neck rings on IS (Individual Section) Machines. With more than 250 units installed across the globe, it continues to set the standard for performance and reliability in glass manufacturing automation.

SWABBING ROBOT SOLUTIONS

Novaxion offers two core configurations of its Swabbing Robot, each designed to meet the evolving needs of glass manufacturers while maintaining the company's trademark reliability and efficiency.

VALVE BLOCK (EPVB) MOUNTING ON ALL IS MACHINES- BLANK SIDE

The NX-VR-300 model features a next-generation rail mounting system, engineered for installation directly on the valve block of the IS machine's blank side. This design offers:

- Exceptional rigidity to withstand the demands of high-speed, on-the-fly swabbing;
- Compatibility with both single and tandem IS machines.

This robust mounting system

ensures stable operation even under continuous, high-cycle production environments.

SUSPENDED SWABBING ROBOT ON ALL IS MACHINES- BLANK SIDE

The NX-SR-300 introduces a suspended (hanging) variant of Novaxion's leading swabbing robot, delivering flexibility and strength in one solution. This configuration is designed to seamlessly integrate with the overhead panel and structural layout of the IS machine. Key features include:

- High rigidity to support high-speed swabbing operations
- Compatibility with both new IS machines and upgrades to existing installations;
- One unit can effectively serve either single or tandem machines.

At Novaxion, customization is paramount - each installation is tailored to meet the specific needs of the customer.



Beginning its journey back in 2004, NOVAXION entered the glass manufacturing sector with a focus upon automation. With its gathering robots specifically designed for handcraft and semi-automatic glassware production, the company soon laid the groundwork for its future in technological advancement and automation excellence.

SUSPENDED SWABBING ROBOT ON ALL IS MACHINES - BLOW SIDE

The NX-BR-300 extends Novaxion's suspended swabbing technology to the blow side of IS machines. It mirrors the mechanical strength and integration flexibility of its blank side counterpart, with enhancements focused on efficiency:

- High rigidity for reliable, high-speed swabbing;
- Compatibility with both new machines and retrofitted systems;
- A smart spray nozzle that performs non-contact swabbing, reducing lubricant usage and preserving mould life.

This advanced nozzle technology ensures consistent swabbing performance while minimizing wear and operational costs.

SWABBING FEATURES

Novaxion's swabbing systems are engineered for precision and minimal disruption. They automatically swab both moulds and neck rings, executing the process on-the-fly within a single section cycle - without generating rejects. The proprietary smart spray nozzle enables closed mould swabbing with no direct contact, significantly reducing lubricant consumption and extending mould longevity. This efficient and clean approach translates to



improved production uptime and lower operational costs.

GATHERING ROBOT

Novaxion Gathering Robots are recognized as global leaders in the realm of semi-automatic and high-end glass production. A newly-developed, user-friendly software interface enhances the gathering process by offering intuitive controls and advanced adjustment features. These improvements provide operators with greater flexibility and ensure consistently high product quality.

SERVICES

Novaxion supports its customers with a full suite of after-sales services:

- Robots are equipped for remote diagnosis and technical support;
- Training is available both on-site at customer facilities and at Novaxion's dedicated training centre;

- Maintenance contracts and follow-up training programmes ensure long-term performance;
- 24/7 support guarantees continuous production assistance;
- Lubricant formulations can be tested and approved at Novaxion to ensure compatibility with robotic systems.

From installation to ongoing support, Novaxion remains committed to empowering glass manufacturers with both cutting-edge automation and expert service. ■



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