

MINIMAL-QUANTITY CAVITY PRESERVATION

Apply preservation waxes precisely and efficiently

- Targeted and efficient application of preservation waxes
- Maximum precision in dosing the smallest quantities
- Positioning accuracy and spray angle accuracy of the wax jet: 0.1 mm and 0.05°
- Adjustable application distances (5 mm to 500 mm)
- Wax jet adjustable from 0.2 mm stream to 30 mm cone
- No overspray and no dripping for clean components, reduced rework, and lower cleaning effort
- No aerosols – no additional extraction or enclosed robot cell required
- Robot-guided nozzles apply only to designated protection areas
- Three application methods: AirLess for weld spots and seams, AirMix for broader surfaces and areas, AirPush for driving wax around obstacles where no direct line of sight exists
- “Degrade Mode” for availability rates of up to 99.8%
- Continuously adjustable spray air pressure in the AirMix process
- Inline wax jet and cone measurement using the VMT-Toolbox 3D
- Automated TCP tracking available

- Inline dosing quantity control via an integrable PLC-controlled scale
- Turnkey integration without interface risks in the production environment
- Fully automated process with maximum repeatability and stability
- Custom-designed hose packages for common robots such as KUKA, ABB, etc.
- Seamless integration into conveyor systems, cell control, and production control stations
- System design compliant with CE and UL regulations; additional certifications available upon request
- Planning and execution according to customer standards and specifications
- Scalable scope of supply, from application setup to fully integrated robot cells
- Compact design with excellent accessibility reduces footprint and simplifies maintenance
- Various options and accessories available
- A wide range of training sessions and workshops available
- Different maintenance contracts available upon request
- We offer offline simulation, digital twin, VIBN, and follow a continuous optimization process, allowing programs to be adjusted and copied during production – reducing commissioning times and simplifying the integration of new variants



Suitable for doors, hatches, and add-on parts requiring high precision and cleanliness



Use of 100% wax or water-based protective waxes



Minimum shot time

Discharge rate of

0.3 – 3.0 g/s

Dosing accuracy

+/- 0.05 gr +/- 1 mm

At a distance of 500 mm, the precision is



Contact us for detailed information on optimizing your processes and boosting efficiency.