



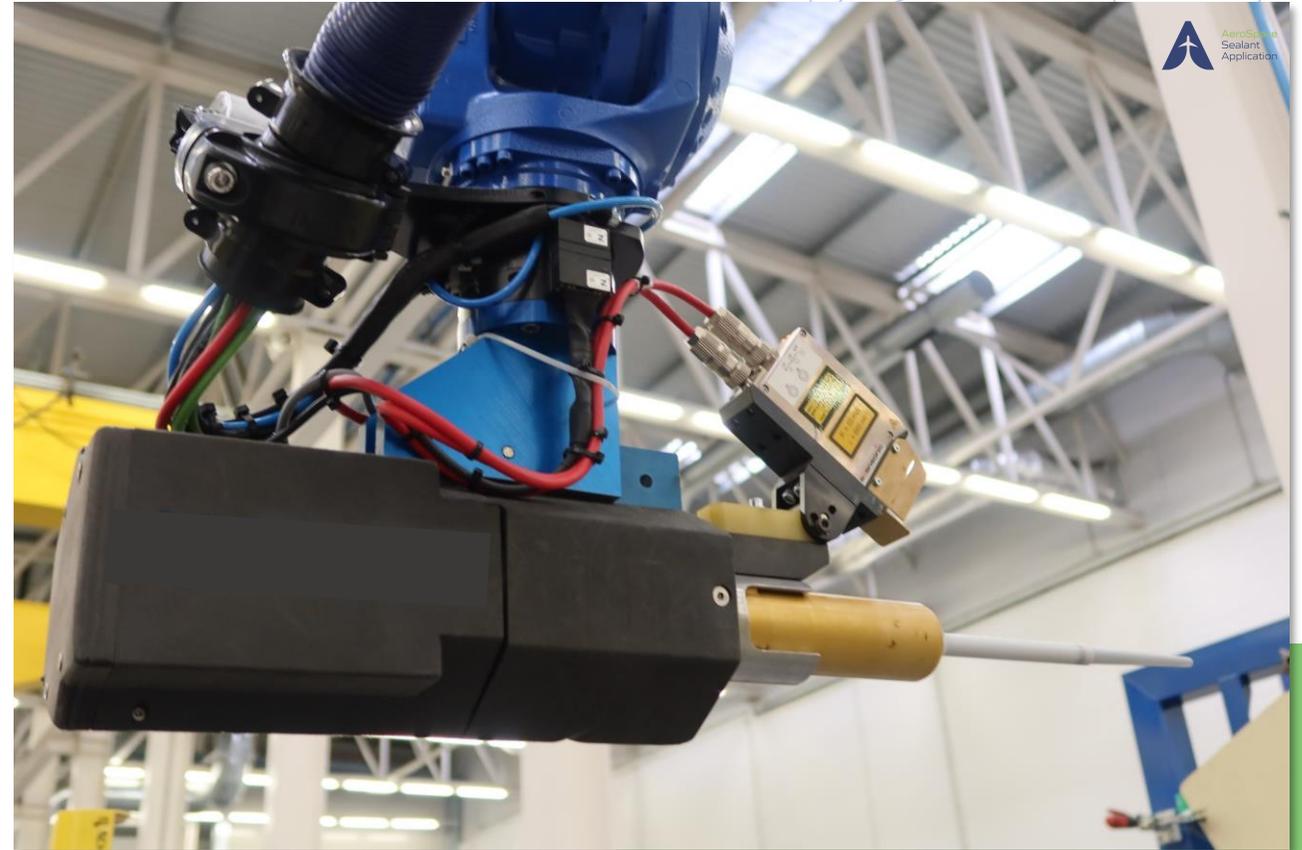
AeroSpace
Sealant
Application

SEALANT AUTOMATION

Sealant Automatic End Effector

Key features and benefits of our Automatic Sealant End Effector

- **Precise and Consistent Application:** Our end effector ensures accurate and repeatable dosing, eliminating human error and minimizing material wastage.
- **Increased Efficiency and Throughput:** By automating the dosing process, our solution significantly reduces cycle times and increases production throughput, leading to improved productivity and cost savings.
- **Versatility and Adaptability:** The automatic sealant end effector is highly versatile and can be easily integrated into existing manufacturing lines. It offers flexible programming options, enabling you to adapt to different sealant types, part scenario and application requirements.
- **Enhanced Quality and Reliability:** Our automatic sealant end effector provides uniform and controlled application, ensuring consistent sealing results and reducing the risk of defects or rework



Sealant Automatic End Effector

Technical Specifications

Control hardware is based on SIEMENS PLC and SIEMENS communication tools.

Control functions are provided through functions libraries, which include:

- Start dosing
- Stop dosing
- Flow
- Free techkit
- Lock techkit
- ...



Spec	Description
Sealant Format	<ul style="list-style-type: none"> • Premixed Techkit • A,B & C sealant classes including CHEMETALL MC780 B2 and PR1782B
End Effector Weight	11kg (dead weight without laser system)
End Effector measures (l, w, h [mm])	550x130x225 mm
Tool Changer * *Optional	WWR80-B Max weight 70kg Flange: EN ISO 9409-1
Power Supply	24V DC 15 A max peak @ 3seg
Bus Communications	PROFINET, ETHERCAT, CANOpen
Robot's Max Speed during dosing process	250mm/s* (typical speeds range from 10.200mm/s) *Depends on robot's path and sealant beam geometry
Robot's Compatible Brands	Independent from robot manufacturer
Pneumatic Pressure	4-6bar
Ambient Temperature during Operation	15-40C

Sealant Automatic End Effector

ACCESORIES



Tool Changer

Depending on your application needs, **ASA** offers a wide range of accessories for its Sealant Automatic End Effector which will allow you to increase and expand its flexibility and implementation.

Seam tracking laser system



Precise part positioning and seam tracking



Add flexibility allowing end effector interchange



Rivet Encapsulation Sealant Pod



Automatic rivet encapsulation

Sealant Cartridge Loading Station



Automated loading and unloading system for sealant cartridges

TCP calibration system



Calibrate end effectors TCP

Interchangeable Sealant Pods



Seamlessly switch between different sealant brands

Sealant Process Turnkey Solution

Key features

The system includes Siemens HMI and PLC control, Service area for automatic load & unload of techkits and automatic TCP calibration.

ASA offers a complete user-friendly HMI with all the necessary process parameters and cycle tools to operate the full system



Up to 14.000mm linear axis and 6 extra interpolated positioners.



Easy integration in production LAYOUTS with service area integrated in robot's axis.



Industry 4.0 compatible, full access to process data



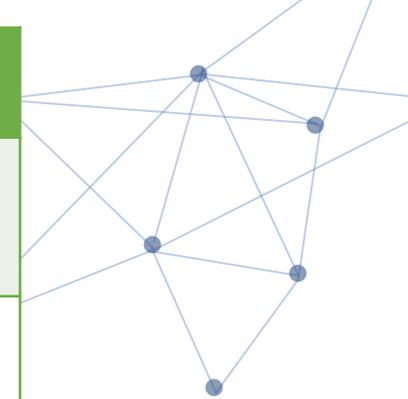
Full user-friendly HMI to operate & visualize the process.

Sealant Process Turnkey Solution

Technical Specifications

For those seeking a complete turnkey solution, our robotic sealant application cells integrate our automatic end effector with a state-of-the-art robotic system. This comprehensive solution optimizes the sealant application process, delivering unmatched accuracy, consistency, and productivity.

Spec	Description
Robot manufacturer	<ul style="list-style-type: none">• YASKAWA MOTOMAN• Robot model varies depending on application
Linear Axis stroke	Up to 14.000mm
Additional Positioning axis	Up to 6 interpolated positioning axis
HMI Interface	Siemens smart panel Smart light for visual and acoustic signals User friendly interface
Power Supply	380V AC
Bus Communications	PROFINET, ETHERCAT, CANOpen
Pneumatic Pressure	4-6bar
Ambient Temperature during Operation	15-40C
Control Hardware	SIEMENS S1400





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