

Equipment

Designation	Part number
3D HEAD ALU 2 PRODUCTS W/TEMP.&PRESSURE SENSORS	130001769
3D HEAD ALU 2 PRODUCTS W/O SENSORS	130001768
3D HEAD STAINLESS STEEL W/TEMP.&PRESSURE SENSORS	130001767
3D HEAD STAINLESS STEEL W/O SENSORS	130001766
3D HEAD ALUMINUM W/TEMP.&PRESSURE SENSORS	130001765
3D HEAD ALUMINUM W/TEMP. SENSORS	130001764
3D HEAD ALUMINUM W/O SENSORS	130001763



3D Head

Robotic sealer & LASD dispensing gun

Easiest access and lightest solution for sealing application!

Product highlights

- Premium flat stream in interior car body
- The lightest and best accessibility for robotized application
- High reliability design dedicated to automotive factories



Additional information

- User manual
- Spare parts
- Accessories
- Documents
- Videos



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3D Head

Robotic sealer & LASD dispensing gun

The 3D Head is the best sealing solution to access difficult areas in the car body. It supports 3 separate nozzles for applying a perfect flat seal. Sames offers the largest range of dispensing robotic solutions for automotive applications.



Adapted industrial markets

Technical data table

Designation	Value	Unit
Maximum Air Pressure	6 (87)	bar (psi)
Maximum Material Pressure	250 (3620)	bar (psi)
Maximum Inlet Pressure	250 (3600)	bar (psi)
Weight	3,7 (7.5)	kg (lbs)
Maximum Temperature	80 (176)	°C (°F)
Tips / Nozzle included	No	
HVLP Compliant	No	
Air Inlet Fitting	8 JICM (NPTF)	

Marking

Product	Type
3D Head	CE 0080

Technologies

Description

The 3D Head is the best applicator in its class for the application of sound deadening or sealant inside the body or under the body. Its general architecture allows it to access the most difficult to reach areas. It utilizes 3 nozzles with 3 different orientations that rotate using the 6th axis of the robot and allows the programmer unrestricted robotic trajectory. The cycle time reduction is estimated at 30% using a single nozzle applicator. Its 300 mm shaft with a maximum diameter of 40 mm at the tip allows it to get into every corner of the vehicle body.

Designed with agility in mind, the 3D Head is the lightest on the market (3.7 kg in its aluminum version) with a center of gravity as close as possible to the mechanical interface of the gripper. It allows optimizing the load capacity and therefore the robotic investment.

It is also a very versatile product because the 3D Head has many options: in aluminum or stainless steel, with or without recirculation, applying one or two different products (1), with or without temperature and pressure sensors, it will adapt to all types of applications and all levels of integration.

In terms of maintenance, this applicator is designed to operate in three shifts without maintenance for one year. There are minimal spare parts which are collected in maintenance kits. The swivel does not have electrical contacts which are the source of failure and all electronic components (sensors and solenoid valves) are easily accessible from the outside.

(1) not all options are compatible with each other.

Performances

- 1 Dual product inlets: Circulation or two materials
- 2 - Valves close at the nozzle - clean start and shut off
- 3 - Rotation utilizes the 6th robot axle

Productivity

- 4 - Compact design for optimal reach in confined areas
- 5 - Supports 2 different materials or if circulation is used
- 6 - Three nozzles in 3 directions can be utilized: Flat stream or spraying
- Designed to simplify the robot trajectory

Sustainability

- 7 - High pressure durable swivel: No rotating electrical connections & maximum twist torque in applicator of 20Nm
- 8 - All electronic components placed externally for easy access under a protective cover

