ASIS
Automation Systems & Intelligent Solutions

FLAME TECHNOLOGY

ROB-FLAME

CONNECTING TECHNOLOGY AND PEOPLE

Flame Treatment System

The flame treatment system consists of a control unit, which regulates the gas-air mixture and the gasburner. It is divided into two parts, the mechanical part, with all the pipes, valves, pressure switches and mass flow controllers and the electrical part, consisting of the control, visualization, automatic burner control and all the electrical wiring. In order to achieve optimum paint adhesion on polyfin and polyolefin plastic components, such as bumpers in the automotive industry, a high surface tension must be generated. In addition, a clean reproducible surface is ensured.

Flaming can be effected in two ways:

- Flexible by using an industrial robot
- stationary, with movable parts to be flamed

1

Flame treatment with a flexible robot arm

2

Stationary flame treatment

Technical Specifications

Power supply	230 V/50 Hz
Control	Siemens S7 PLC
Operation	Touch panel, higher-level control
Gas supply	50 to 1,000 mbar
Gas types	Propane/natural gas/city gas
Heat output	Up to 50 kW (depending on the type of gas)
Compressed air supply	Existing compressed air network, frequency-controlled supply air blower

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The Advantages

- Precise electronic regulation of the air and gas volumes
- Flexible burner-design according to customer requirements
- Improved adhesion of the paint on the plastic surfaces
- Reproducibility of the application result
- Improvement of product quality and durability
- Process monitoring in the sense of quality management
- Leakage monitoring of the air/gas mixture hose
- Profibus-, Profinet- or I/O interface
- Integration into higher-level control systems
- Fully automated
- User-friendly interface
- Customized solutions
- Own commissioning personel
- Complete system from a single source

Economical and flexible

100%
MADE IN GERMANY

Console control panel next to each other

Switch panel on top of each other

Versions

The ASIS flame treatment system is not only controlled, it is continuously regulated in order to maintain the quality during the production process. Controlling and monitoring of performance data becomes more and more a "must" in the automotive environment.

The control is done electronically by proportional valves with integrated mass flow sensors.

Of course, the necessary safety valves, pressure regulators and the pressure sensors are included in our system.

Depending on the requirements and available space, the systems can be installed modularly in different versions: as a desk next to each other or as a panel on top of each other. There is also the option of an integrated display.

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