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 polypropylene 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 |

ROB-FLAME

# 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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