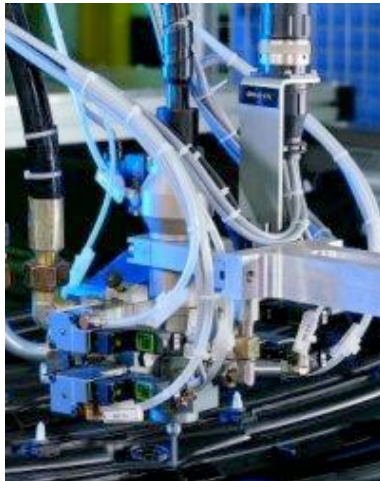


## C A S E S T U D Y

### **Gerhardi Kunststofftechnik GmbH** Lüdenscheid Germany

## GERHARDI



“We are very satisfied with the functionality of the (ScaleBuster) device and intend to equip another circuit with the system in the next year.”

### OVERVIEW

Gerhardi manufactures high quality plastics parts, specifically interior and exterior injection moulded parts for the automotive industry. The company operates multiple locations and its distinguished customer base includes Audi, BMW, Fiat-Chrysler, Saab and Volkswagen. Many tools need to be sent away for repair once (or even twice) annually, adding costs as well as being unavailable for manufacturing scheduling for months every year.

### WATER SYSTEM CHALLENGES

The main closed cooling circuit uses water to cool tools (moulds) of 18 plastic injection moulding machines. The water is highly corrosive, creating production downtime and high cost repairs of the tools. Every tool replacement causes water to be drained hence fresh water has to be added to the circuit (makeup water).

### SOLUTION

In July 2001, an ION **ScaleBuster**® 50-16E was installed as corrosion protection for the first cooling machine in the circuit.

### RESULTS

After one year Gerhardi found that corrosion in the closed cooling circuit as well as the tools has diminished considerably. Based on these results, the company equipped more cooling circuits with ION **ScaleBuster**® water conditioning technology.

### ABOUT THE TECHNOLOGY

The patented **ScaleBuster**® technology completely replaces traditional chemical treatment; providing control of scale and corrosion in various water process systems to create an exceptionally clean system. This dramatically reduces energy and water consumption, while reducing or, in certain cases, eliminating toxic water discharge to the environment.