

PH-INSPECTOR DATA SHEET

BENEFITS

- **100% thermal inline monitoring** of temperature control regarding strength, dimensional stability
- Maximum temperature measurement accuracy by using short-wave IR sensors
- Cycle time-neutral inline measurement by line-shaped component recording during component movement
- Early detection of tool wear and system malfunctions of oven, press and tools
- Optimized teaching of tooling
- Archiving of radiometric temperature recordings and all system parameters for up to 22 years
- Visualization in the intranet via browser (integrated web server)
- Interface connection e.g. via OPC to customer-side control
- ...



DESCRIPTION / EXAMPLE OF APPLICATION

The integration of this stand-alone **PH-Inspector system** enables reliable thermal compliance with the process specifications, including an automatic inline alarm / outfeeding request for non-compliance with adjustable temperature windows. By integrating furnace and press control via OPC and archiving all process data, anomalies are not only detected and alarmed, but they also significantly simplify troubleshooting.

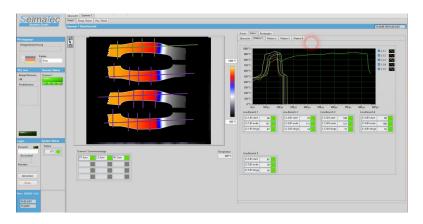
If required, a web server visualizes the data acquisition software in the entire intranet.

The integrated recipe management requires no further intervention when changing the tool, as the system automatically uses stored, tool-specific test recipes.

Thanks to the open system layout, further hardware and software functions as well as additional sensors can be retrofitted at any time if required.

MEASUREMENT SPECIFICATIONS

Temperature Range	20 1200 °C
Sensors / Pyrometers	Up to 6 IR Linescanner (Standard) Optional Pyrometer, IR-Camera, NIR-Camera, Vision-Camera
Data transfer	OPC (Standard) Profinet (Optional)
Interfaces	Profibus, Analog-Digital I/O
Power Supply	230 VAC (Panel-PC, Interface) 24 VDC (Sensors)
Scope of Delivery	Complete system solution incl. Commissioning and training





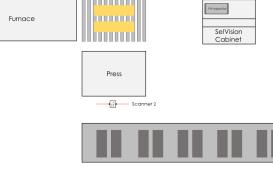
INLINE TEMPERATURE MONITORING FOR FORM HARDENING LINES

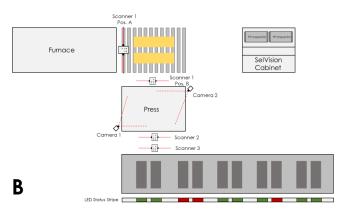
PH-INSPECTOR

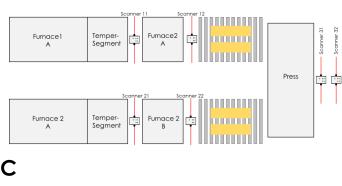
DATA SHEET

LAYOUT EXAMPLES

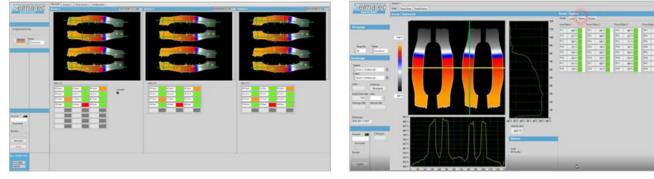
- There are a variety of options (e.g. A, B, C)
- From 1 scanner up to 6 scanners and additional position control in the press
- The system is flexible and easily expandable and therefore well adaptable to different needs







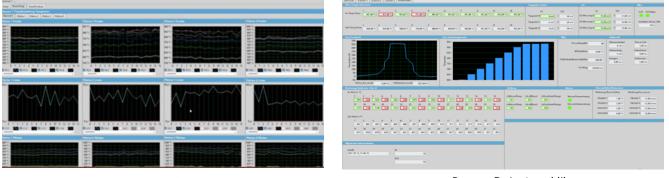
Software



Α

PH-Inspector (Inline-Inspection)

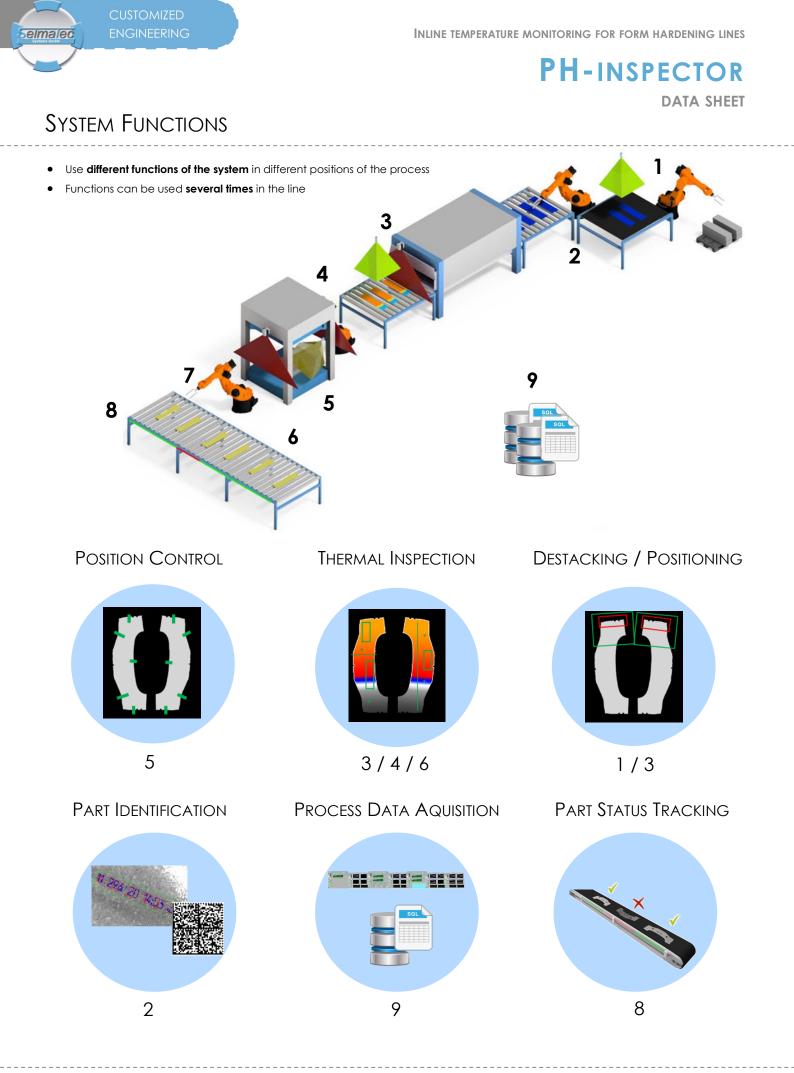
PH-Analyzer (Analyzing of historical data)



Result Trending (Trend display of temperature and position)

Process Data Acquisition (Process data and inspection results stored together)

Von-Cöllen-Weg 10 D-21379 Scharnebeck



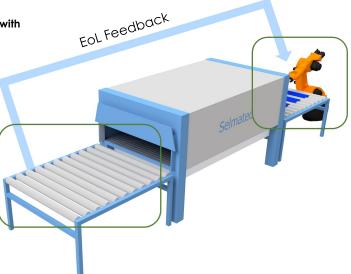
Von-Cöllen-Weg 10 D-21379 Scharnebeck Phone: +49 (0)4136 / 3620544 Fax: +49 (0)4136 / 9006927 info@selmatec-systems.de www.selmatec-systems.de



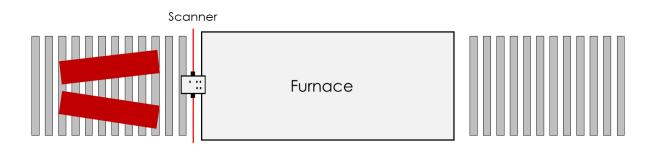
PH-INSPECTOR DATA SHEET

End of Line Feedback

- Use the **information from the end of the furnace** and transfer it as an input for begin of furnace
- Get information about the **position of the blanks and the transfer zone** etc.
- Influence the output of the parts
- Measure the misalignment either with a visible camera or with an linescanner



ROTATED BLANKS



CORRECT POSITION OF BLANKS

