

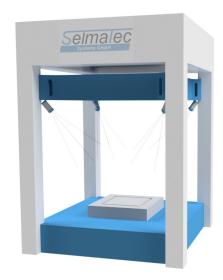
DC-INSPECTOR

DATA SHEET

BENEFITS

- Ensuring process stability by active inspection of the drawing edges, chamfering edges, waviness and crack detection during cold forming of sheet metal
- Al models detect and report problems early to prevent impending rejects
- **High accuracy of the system** (deviations < 1 mm are detected)
- Production overview thanks to archiving and reporting
- Auto report function
- Visualization on the intranet via browser (integrated web server)
- Interface connection e.g. via OPC to customer controls
- Forecast functions
- Cycle time neutral recordings
- In cycle protocols for connection to higher-level QA systems
- ..





DESCRIPTION / EXAMPLE OF APPLICATION

Using the **DC-Inspector system** ensures process stability due to the active evaluation of the drawn edges, "First Touch Line", wrinkeling and crack detection during the cold forming of sheet metal. The control parameters can be adjusted to suit the components and can be converted as required due to a suitable recipe management

Thanks to the incycle Al-models we developed the system can detect and report issues at an early stage to prevent rejects without any further information. If required an integrated configurable web server visualizes the data collection software on the intranet.

Due to the integrated recipe management the tool change requires no further intervention as the system automatically resorts to stored tool-specific test recipes.

For industry 4.0 applications different telegrams for communicating with higher level systems are available.

The open system layout allows the integration of further hard- and software features at any time.

MEASURING PARAMETERS

Sensors / Cameras NIR-Camera, Vision-Camera

Data transmission OPC (Standard) Profinet (Optional)

Interfaces Profibus, Analog-Digital I/O...

Power Supply 230 VAC (Panel-PC, Interface)

24 VDC (Cameras)

Scope of delivery Complete system solution

incl. commissioning and training



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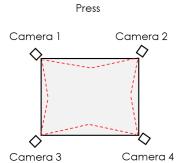
EXAMPLE LAYOUT

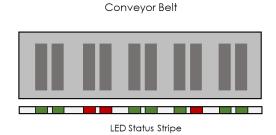
- There is a wide range of options (the system layout is customized according to the customer's needs)
- The number of cameras required to capture all relevant points depends on the universal conditions of the process
- The system is flexible and easily expandable and therefore well adaptable to individual needs

Example System Layout









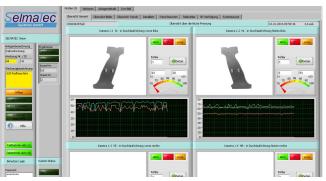
SOFTWARE



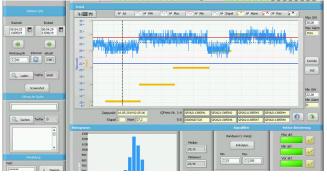




DC-Config
(Parameter-Configuration)



Trend monitoring



Process data acquisition (process data and test results are stored together)

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DC-INSPECTOR DATA SHEET

AUTO JOB REPORT

• The Auto Job Report enables an automatic production review in order to always have an overview of the entire processes

