

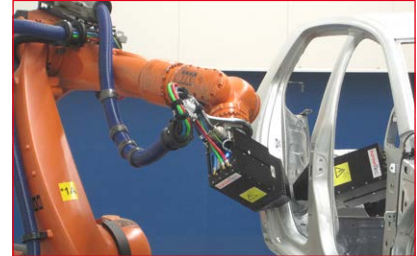


## Thermography Automation

Individual Solutions for each Application

### WELD-CHECK – Non-destructive, Contactless Inspection of Welded Connections on Car Bodies

- Inspection of resistance and laser welded connections
- Completely automatic inspection system with measurement times of a few seconds per welding spot
- Highest inspection accuracy through evaluation with special software algorithm
- Integration into the local quality management through direct preparation of measurement protocols and links to databases
- Detection and classification of various error types permits early detection of deviations in the joining process



### INDU-SCAN – Rolling Material Monitoring / Sheet Metal Working

- Automatic monitoring of critical temperature ranges
- Technological process control
- Extremely robust camera unit for use in very rough industrial environments
- Versatile analysis options with special industrial software based on INDU-SCAN
- Air and water cooling possible
- Design for continuous operation (24-7-365)



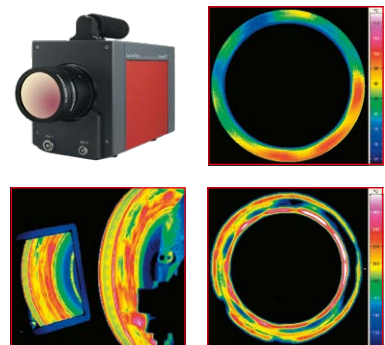
### PRESS-CHECK – Inspection System for Press Hardening

- Temperature control before and after press hardening
- Monitoring of the entire sheet metal part surface / optionally tool surface
- Automatic contour detection of the sheets
- Position control, position detection and double sheet detection through temperature measurement and classification
- Fully automatic, process-synchronised operation
- No setup times
- Automatic sorting out of metal sheets or stopping of the press when limit values are not maintained
- Long-term recording and archiving of all measurement data for later analysis
- Design for continuous operation (24-7-365)



### TRC\* – High-speed Rotation Test Bench

- Professional thermography measurement site solution for thermal analysis of rotation parts, such as brake discs and tyres
- Rising demands for service life and quality of rotating wear parts in the automotive sector require in-depth examinations of the corresponding assemblies and components
- Measurement object is measured with sampling rates up to the kilohertz range
- Data recording is triggered automatically by the inspection machine
- Performance of various transformations for depiction, selection and archiving of the data
- Convenient analysis options for thermographic data



\*TRC (Thermal Rotate Check)

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### SLAG-DETECT – Infrared Slag Detection

- Thermography monitoring system for slag detection
- Targeted tapping and skimming checks
- Minimisation of production loss for high-quality steels
- Varied analysis options for the tapping process and skimming
- Quality-oriented archiving of the process parameters
- Use of robust and long-life thermography technology
- Design for continuous operation (24-7-365)



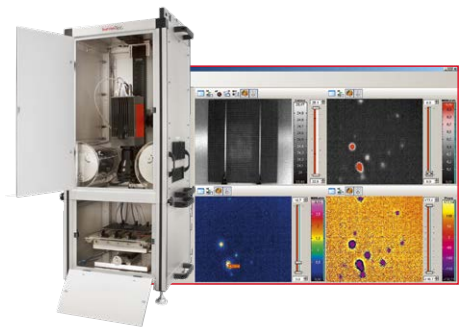
### WASTE-SCAN / FIRE-SCAN – Infrared Monitoring for Early Fire Detection

- Automatic scanning of multiple monitoring sectors
- Highest thermal and spatial resolution for reliable detection of the smallest hot spots
- Alarm function when critical temperature limits are exceeded
- Single and multiple camera system solutions; combination with swivel-tilt head ensures constantly high local resolution; continuous operation (24-7-365)



### ACTIVE-LIT/PV-LIT – Semiconductor Inspection

- Automated system for inspection of solar cells, semiconductor material or complete solar modules even during the production process
- Failure detection with electrical stimulation
- Inspection of the most varied of sample sizes – use of IR microscope lenses permits detection of the smallest defects
- Freely selectable integration times of the thermography camera for optimising the thermal sensitivity



### SPTC\* – Solar Tower Power Plant Monitoring

- 100-percent monitoring of the absorber surface of solar tower power plants
- Automated temperature measurement without interaction by the user
- Reliable alarm if established limits are violated
- Reduction of maintenance costs and prevention of failures due to overheating
- Design for continuous operation (24-7-365)



### IROD – Environmental Protection and Object Monitoring

- Automated monitoring of buildings, halls and open spaces
- Alarm/detection even in the event of complete darkness or poor visibility
- Automatic protection of system in case of critical weather conditions
- Data transmission using fibre optic cables or radio links
- Adapted infrared optics for optimal observation
- Seawater-suitable equipment and installation
- Design for continuous operation (24-7-365)



\*SPTC (Solar Power Tower Check)