



COMPANIES IN SLOVENIA

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Automated solution for

THERMAL CRACKS

Detection & Inspection & Measurement

Challenge:

- The result of thermal cracking on casting tools is the appearance of small, sharp spikes/burr on surfaces.
- Due to the extremely small clearance in the assembly of the product, even the smallest defects on the surface can cause electronic problem, which can result in system failure, explosion or fire.
- Usual error tolerances: 30 µm–50 µm.

Main features:

- A fully customized turnkey solution for 100 % detecting and measuring the height of thermal cracks on castings.
- In-line machine – final check of the products before packing.
- Customized clamping system for different castings design.
- Automatic removal of NOK products.
- Option for DMC code reading.
- Option for ink-jet marking system.

Automated solution:

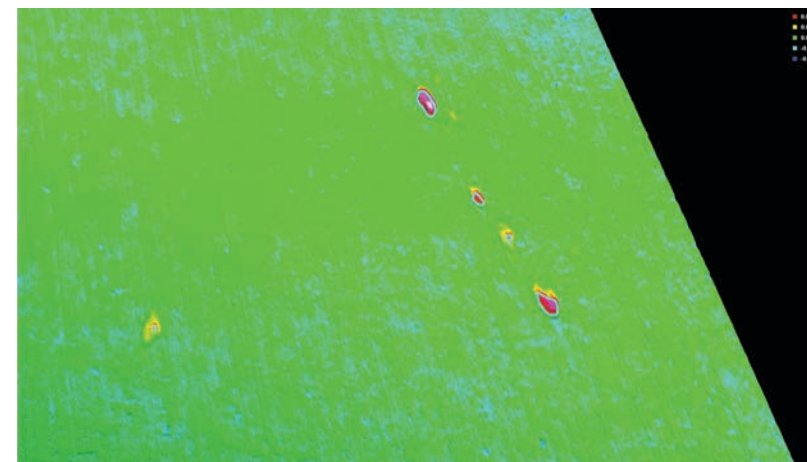
- Manual or robotic serving.
- Option for robotic cell including serving of measuring machine and other actions after cleaning (Rotafinish).
- Automatic export and evaluation of the data.

Inspection/Measuring performance:

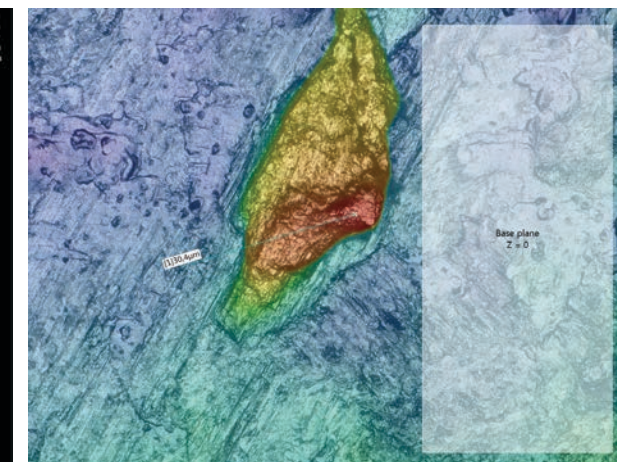
- Customized laser measuring system.
- Resolution: 0,001 mm.
- Repeatability: 0,002 mm.
- Scan rate: up to 5000 Hz.
- Cycle time: 8,8 sec per product
(Depends on product size and production line cycle).



*A fully customized solution for
100 % **surface control** of castings.*



Live view of thermal cracks detection with TRAMES Machine.



Lab microscope view of thermal crack – reference.