

Automatic Crack Inspection with Machine Vision Systems

R. SÖHNCHEN, E. GUTTENGEGER, R. CLASEN, Automation W + R, München, Germany

Used for

- Magnetic Particle Inspection
- Dye Penetrant Inspection

Customers

- Hirschvogel Umformtechnik
- Saarstahl AG
- Daimler Chrysler
- MTU Aerospace

Specification

- Automated crack detection reference projects in various industries (steel mill, smithies, foundries, air and space industry)
- Short processing times based on the inspection during the parts movement (up to 1.25 m/sec)
- Connection of segmented partial cracks
- Verification of the moistening of parts
- Constant monitoring of all components
- Checking of the inspection liquid concentration
- Definition of the inspection field with the help of a graphical editor
- Unlimited inspection areas with different inspection criteria
- Long-life illumination