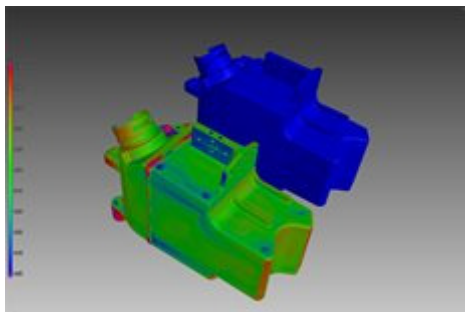


X-ray

X-ray inspection for quality assurance in all types of cast parts

Typical casting flaws can occur in all casting techniques that involve materials such as iron, aluminum, magnesium or zinc. These include porosities, the formation of pores and blisters, as well as thermal cracking, dimensional changes and inclusions.



high unit volumes t

- Typical inspection tasks for cast parts
- Verification of blowholes and pores
- Geometric measurement of inner structures
- Wall thickness analysis

Comparison of actual vs. target situation

Quality inspection using YXLON X-ray systems enables even to be checked for these flaws rapidly and with certainty by using Y.HDR-Inspect. This way cast parts with a deviating casting structure can already be sorted out of the production process at an early stage. The possibility also exists to draw conclusions regarding casting quality from the types of flaws found, and then increase productivity by initiating appropriate measures.

Computed tomography is able to supply important supplementary information, too. For example, inner structures and remaining wall thicknesses can be determined precisely using computed tomography, even in the case of complex components. Information like this is indispensable, especially during prototype qualification.

With components bearing a relevance to safety, ascertaining remaining wall thicknesses following the casting process or the finishing phase for series products is specifically of major importance because this provides information about the material's stability and thermal conductivity. Once a tomogram of a component has been made with YXLON computed tomography systems, information is now available for a variety of analyses..

Yxlon offers you a wide range of X-ray techniques. Yxlon designs solutions that replace X-ray films, provide radioscopy and fully automatic defect recognition in X-ray images, as well as computed tomography services for scanning inspection items ranging from micro-CT to CT using a linear accelerator.

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