Real time defect analysis of digital radiography (DR) images of aluminium casting components

- Company manufacture auto components and supplies aluminium casted components.
- Inspection with radiography and company manually interprets X-Ray images.
- Intepretation is not consistent and time consuming.

Solution

- DAI's ADR system integrated with an automated inspection system.
- DR images of component captured with automation system.
- Images automatically uploaded into ADR platform and defects identified by ADR. ADR customized for company's data and standards.
- Company can view results and generate reports.

Impact

- Data acquistion and defect intepretation time for component is approximately 120 seconds.
- Automated system automatically segregates components since component's quality is known. Reduces dependency on human interpretation and analysis time.