



In-Line Inspection Solutions

Streamline your industry 4.0 inspection process with instant & accurate defect recognition.

Optimize quality control of automotive parts with Vidisco's innovative, 3D, faster, smarter, more accurate, and cost-effective system.



Implement an Industry 4.0 smart manufacturing process



Decrease manufacturing downtime



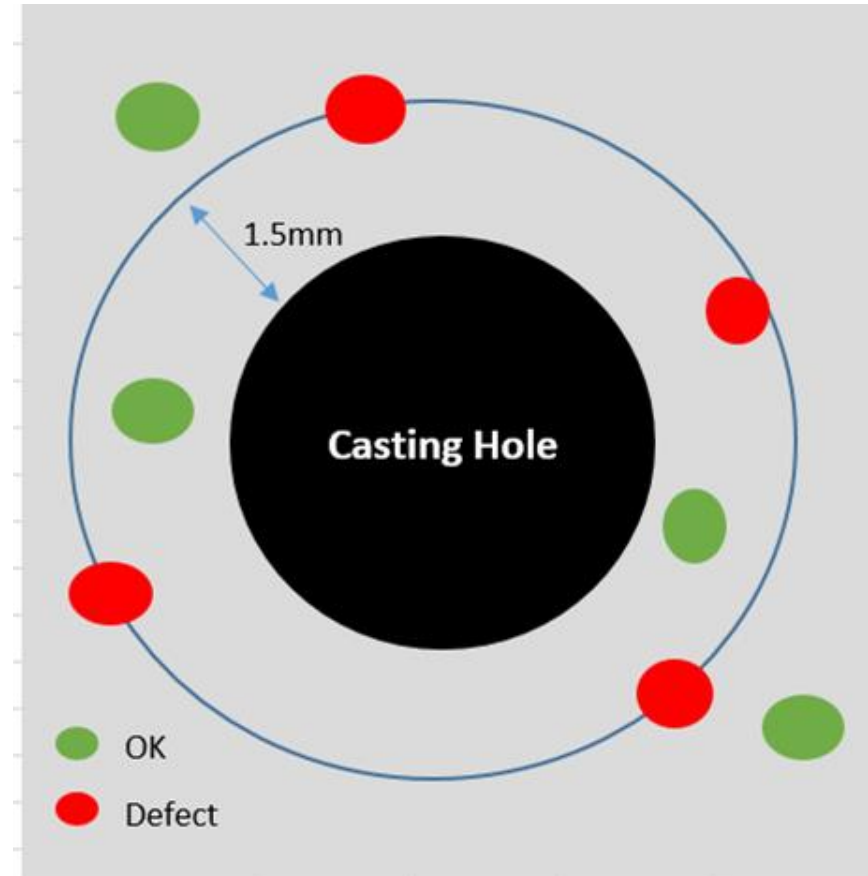
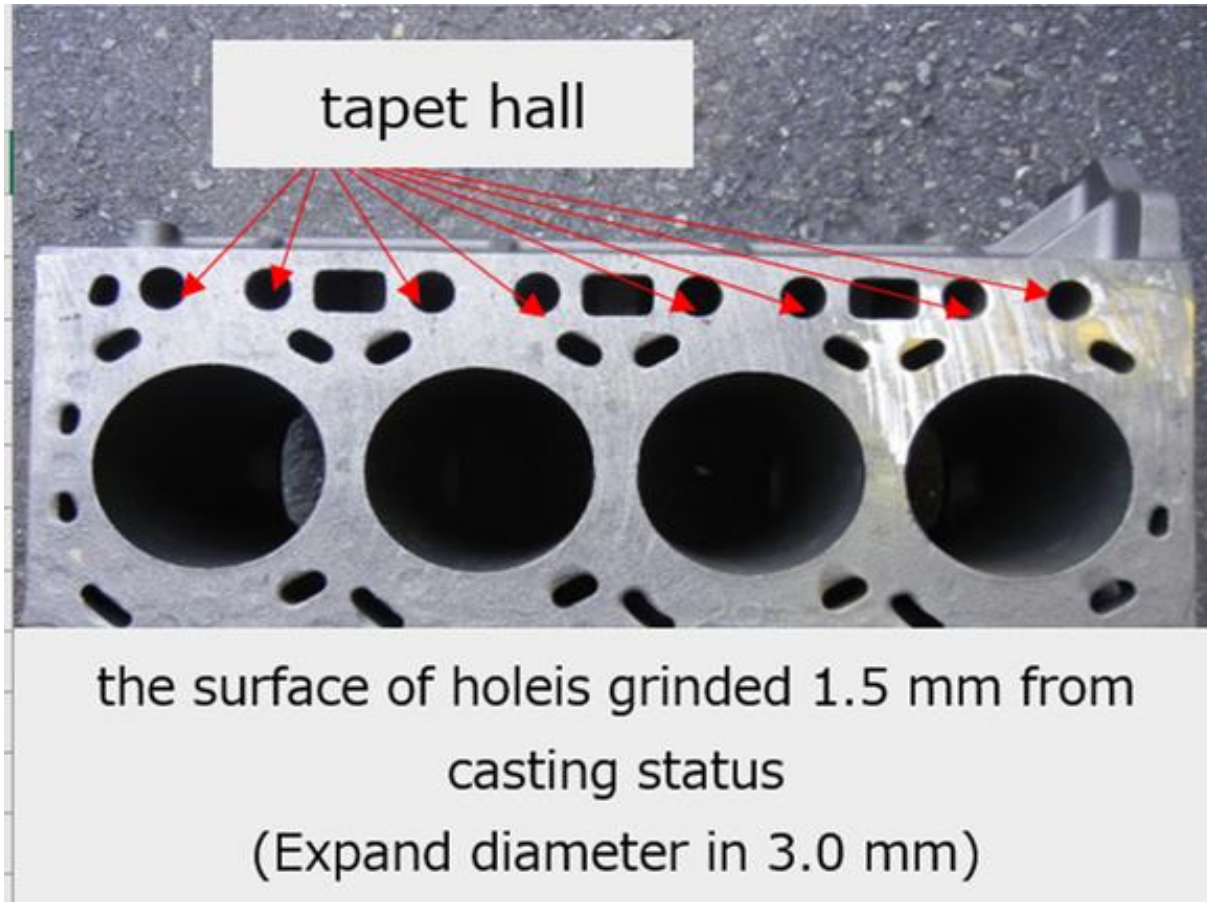
Save scrap costs and improve quality

Instantly identify:

- ✓ Welding defects
- ✓ Void control
- ✓ Porosity
- ✓ Missing, cracked, or broken parts
- ✓ Misalignment or orientation issues
- ✓ Foreign objects
- ✓ Inclusion

Customer Case Study

The challenge: Detect any porosity (size of 1.0 mm or bigger) in the area tangent to 1.5mm from the casting surface



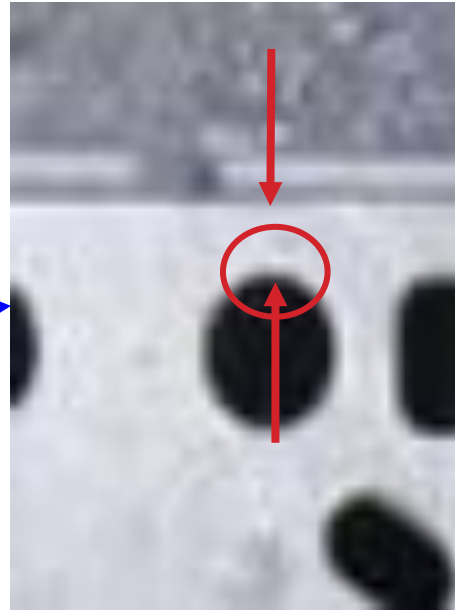
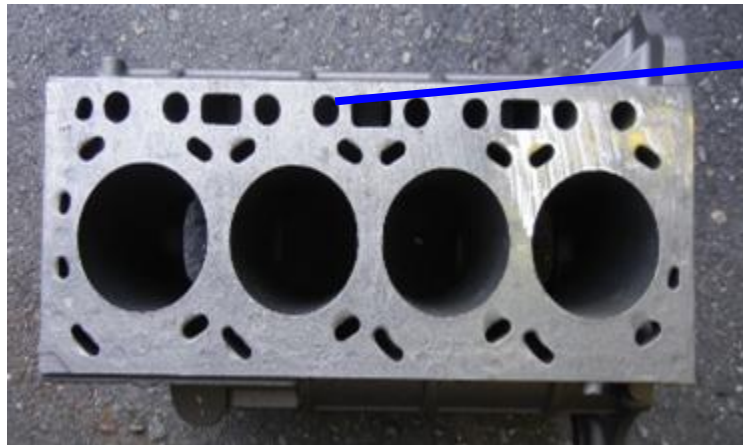
The Solution:

- Multi-angle and multi-energy radiography
- SW/ HW algorithms enabling 3D localization of the defects
- Machine Learning/Computer Vision algorithm for pass/ fail decision.

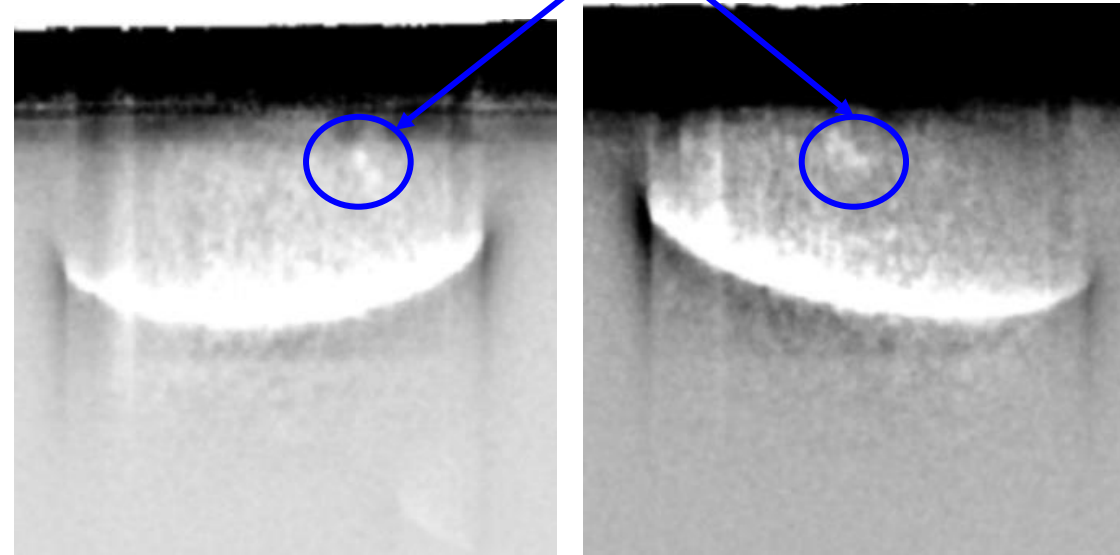
The suggested solution will perform rapid (from 1-2 minutes per block) inline x-ray inspection of preprocessed steel engine blocks

Actual porosity detection

Vidisco had found a porosity inside one of the tapet hole in the engine

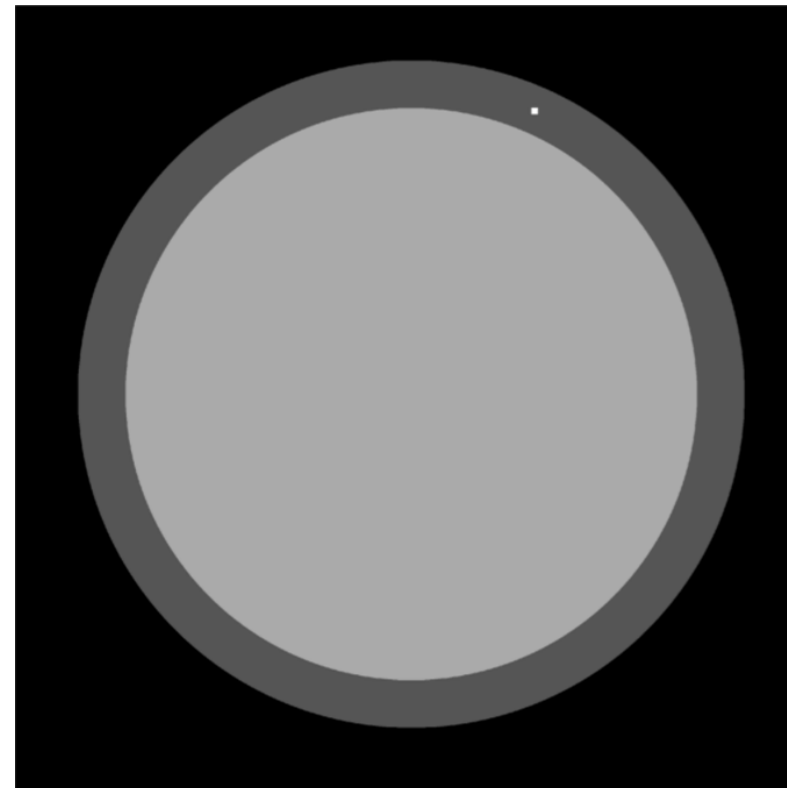
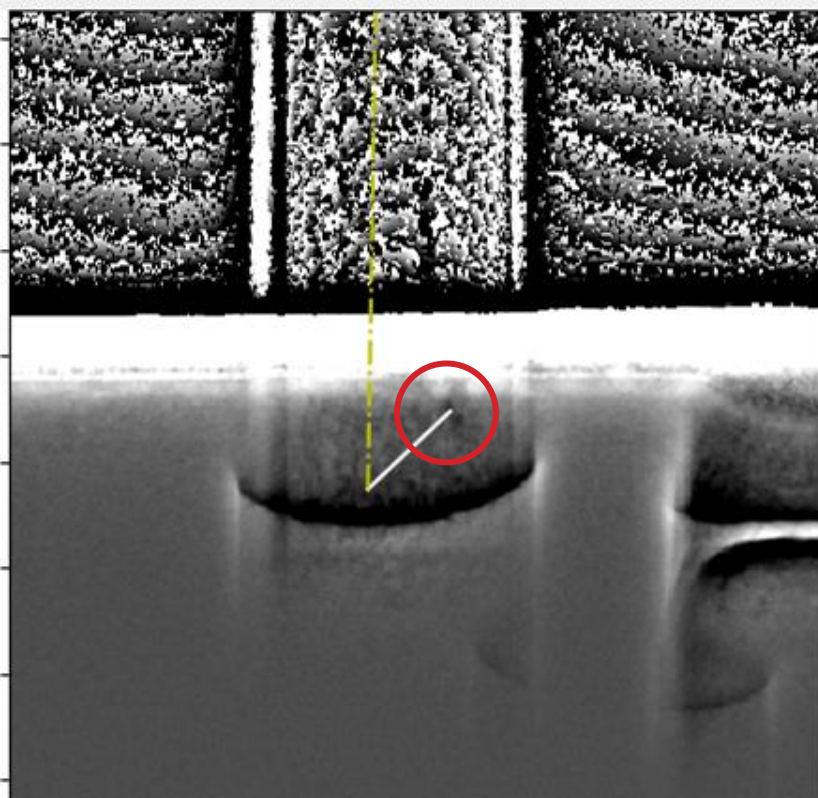


Porosity as it seen in X-ray from 2 angles



Actual porosity detection - 3D location

Vidisco had found that the porosity is in the distance of 9.54mm from the center of the hole (0.54mm inside the engine from the hole surface) – it's a **DEFECT** but according to customer spec **NOT A SCRAP**





Thank You

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