



APPLICATION NOTE

VISION

Real time quality analysis of yarn cones and yarn thread during manufacturing

- Company manufactures and supplies yarn cone and yarn spinning machines for customers in the textile industry.
- Company wanted DAI to integrate their Vision MV solution to their machines to identify defects in the yarn cone and yarn thread material during operation

Solution

- Multiple cameras captured images of yarn cone and thread during operation.
- DAI's MV platform analyzes images and detects defects from images. Altogether there are 6 defect types to analyze.
- Processed images sent to software for user to view results and generate reports.

Impact

- Improve reliability of inspection by determining sample quality accurately.
- Auto-defect detection in digital images to reduce inspection time.
- Around 5 samples are inspected per minute. In 8 hours, more than 2000 yarn cones are automatically inspected.
- Digitize and track inspection records.
- Capture trends in yarn quality to identify issues in manufacturing.

