

## **A** ARKIN METAL **Case Study** Increased process efficiency for flawlessly decorated metal cans

### Customer & Challenge

The Turkish manufacturer Arkin Metal produces decorated metal sheets which are processed to form cans for oil and other food or non-food packaging on a modern production line, equipped with a KBA Metal-STAR 2, one of the fastest metal decoration presses in the world. It allows approximately 8,500 metal sheets per hour to be decorated. ARKIN's customers expect the highest quality standards for the decorated metal packaging. The high speed of the press plus the rising number of color applications made it difficult for ARKIN's employees to monitor the production and detect defects. Therefore ARKIN considered investing in an inspection system. ISRA VISION quickly emerged as the preferred provider, as its systems are particularly reliable and stable.

The user's objectives with regard to the inspection system were: Improving quality, reducing waste, and thus increasing the amount of material that can be sold. In addition, the company aimed to enhance quality management and boost the expertise of customers and operators.

The inspection solution was successfully installed and has been used for several years. Since all relevant defects are now detected, ARKIN has achieved a more stable level of production on its line and has reduced the level of waste production significantly.

### The Solution

#### DecoSTAR Metal Printing Inspection

- Offers highly precise measurement and motion compensation for the metal sheets
- Ensures 100% inspection of up to 10.000 sheets per hour
- Reliably detects defects as small as 0.03 mm<sup>2</sup>, including contrast differences, dust, dirt or covered lines
- Monitors the decorated sheets for possible color deviations.
- Provides with constant feedback on print-run notification of serial defects.
- Has an intuitive setup procedure for new jobs or use of repeating job files.



“The ISRA system has enabled us to achieve more stable production within the printing process. We were also able to reduce customer complaints and better meet our customers’ quality expectations.”

Onur Tecim  
Production Manager  
Arkin Metal

## Customer Benefits



### Precise measurement

With highly precise measurement and motion compensation for the metal sheets, the unique, tailor-made inspection solution ensures perfect print quality and metal decorations.



### Reproducible Quality

The user benefits from reproducible quality at the highest production speeds. Production waste is reduced significantly as a result of early defect recognition. By resolving possible problems before products are delivered to the customer, complaints are prevented.



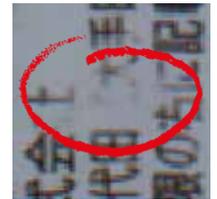
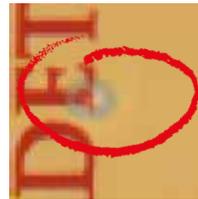
### Fast Installation.

ISRA provides instruction and training on the use of the inspection system. Due to the system’s short installation time and intuitive nature, it is quickly deployed.



### Systematic data collection & analysis

The data collected by the inspection system is systematically analyzed and used, with the manufacturer using feedback from defective sheets to optimize production. The sizes of all the defects in all produced metal sheets are recorded, making documentation easier and aiding communication with the manufacturer’s customers.



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