



**AILSA RELIABILITY  
SOLUTIONS LTD.**

#### **ABOUT US:**

Ailsa Reliability Solutions Ltd are an independent organization, specialising in solutions to improve customers reliability and availability of their plant and assets, using the latest condition monitoring equipment and technology available on the market.

With over 20 years' experience in supporting customers, with various services, across a multitude of industry sectors, we know how crucial uptime of process related equipment is to any organisation.

At Ailsa we can test, monitor, analyse, report, and recommend solutions to critical items of mechanical and electrical plant to assure our customers of maximum uptime and availability and reduce costly downtime and unplanned outages, thus increasing customer productivity and profitability.

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## **CASE STUDY 2021:**

### **SHAKER MOTOR CONDITION ASSESMENT**

#### **The Challenge:**

A customer of ours had shaker systems across their plant and were having unplanned failures. They approached ARSL to see if we could provide a service that would give them any information on the condition of these shaker systems and assist in monitoring going forward.

#### **The Solution:**

Initially we used the Motion Amplification (MA) camera to take a contactless vibration measurement of the shaker motors from a distance. We then complemented this with a second piece of technology called Model Based Voltage and Current (MBVI) system from the switch room that uses the current and voltage waveforms to measure the vibration. By combining both technologies, we were able to build a full vibration and electrical spectrum for the machine without having to shut the machine down or physically touch the motors.

#### **The Value:**

Our client has now carried out a baseline analysis on all the shaker motors within their site and will start to do periodic assessments which will advise them if any changes in trend and alarm them to any potential issues arising.

The recent unplanned outages cost the site between £50,000 and £100,000 each failure and now this risk has been mitigated going forward.