



**RODIAS**

YOUR DIGITAL TRANSFORMATION SPECIALIST

## THE EAR ON THE MACHINE

### HANS G. HAURI KG MINERALSTOFFWERKE

Hans G. HAURI KG Mineralstoffwerke is a stone processing company based in Bötzingen am Kaiserstuhl. HAURI specialises in the high-quality refinement of mineral raw materials.

The company operates three sites in the border triangle between France and Switzerland. The product range is versatile and is used from the construction industry to forestry, geothermal energy, health care or the environment.

The Jura limestone of the Tuniberg is quarried at the Merdingen plant. In a complex technical process, the raw material is burned in the company's own lime shaft kilns to calcium oxide, one of the most important products for environmental protection, waste water purification, drinking water treatment, flue gas desulphurisation and much more. Hauri is one of the most innovative companies in the industry, with state-of-the-art production facilities and its own research and quality laboratories.

„With the continuous monitoring of the oven, I always have an ear to the machine and can react at any time. Through monitoring alone, we have already discovered and been able to optimise many minor problems.“

**Rainer Zwick - Technical Manager**



#### Industry

Stones & Soils

#### Employees

100

#### Headquarters

Bötzingen am Kaiserstuhl

#### Challenges

Increasing the availability of essential production equipment and reducing storage costs

#### Solution

Condition-based Maintenance Cockpit

#### Benefits

- > Permanent recording of the system status
- > Early detection of incipient damage
- > Clarification of the causes of damage
- > Reduction of downtimes

## CHALLENGE

At the Merdingen site, the HAURI company operates a lime shaft kiln, the centrepiece of lime production. As is so often the case with essential production equipment, the question of its state of health is crucial. Unplanned downtimes are not only expensive and have a great influence on the subsequent processing steps.

Not all components of complex technical equipment can be kept in stock, so that spontaneous procurement can become an enormous challenge. The aim is to recognise the approaching damage in good time in order to avoid unplanned downtimes and to procure spare parts and replacement equipment as required.

## SOLUTION

HAURI has decided to monitor the condition of its production facilities more closely by introducing the Condition-based Maintenance Cockpit from RODIAS. of RODIAS to monitor the condition of its production facilities more closely. The decisive advantage is that the state of health is continuously shown. The maintenance engineer has his „ear to the machine“, so to speak. If deviations occur, warnings and alarms are automatically triggered in the cockpit.

The low-threshold integration of maintenance-related sensory data is a novelty and enables a quick introduction to predictive maintenance. The CBM Cockpit recognises the imminent wear and tear of systems and changes in their condition through vibration analysis. Violation of warning and alarm limits automatically generates orders and recommendations for action.



## BENEFITS

With the introduction of the CBM Cockpit, HAURI is able to detect the wear of critical components on the lime shaft kiln at an early stage and can thus react in time before the plant fails. The CBM cockpit also enables learning from the recorded data and thus clarifying the causes of damage. This means that future damage and the resulting failures can be avoided.

The planning of maintenance measures is made more reliable by the new system and has a favourable effect on the utilisation of remaining operating times. Warehousing in particular benefits from needs-based planning in terms of provisioning, space and costs. All in all, the introduction of the Condition-based Maintenance Cockpit has led to a reduction in failures, cost savings through early detection of problems and more confidence in the health of the equipment.

RODIAS is a medium-sized IT service company specialising in systems for the maintenance of complex technical facilities and buildings. With an agile approach and innovative approaches, we realise Industry 4.0 solutions for our customers based on current software technologies.

As part of ROBUR, RODIAS offers even more: Almost 3,000 colleagues work worldwide in the industry segments wind, water, energy, industrials and process industry. As a competent partner to our customers, we create integrated solutions from planning and realisation to installation, operation, maintenance to relocation and dismantling.