ASYSTOM

TERREAL
Use case
Clay building cladding

THE OUTCOME:
TERREAL's factory digitalization speeds up with ASYSTOM

PoC proved instantly beneficial detecting a number of faults on several machines, leading to widescale rollout

AsystomPredict is easy to setup, precise in measurements for alerting teams , which made it compelling to TERREAL

AsystomPredict is on multiple sites and TERREAL are happy to be able to monitor the health of their machines safely and in real time

THE SITUATION:

TERREAL are committed to improving the performance of their production lines and product quality through digital transformation, whilst ensuring cybersecurity is optimum. Following a «Proof of Concept» phase on the Rieussequel (France) site in 2019 where building cladding materials are manufactured, the benefits of *AsystomPredict* became clear quickly and three more TERREAL manufacturing sites were equipped with the solution. Within the factories, essential rotating equipment operates in harsh and hot conditions. It is imperative to monitor it in real time so that production and quality are not impacted. With its ease of installation (in minutes) and its secure but flexible data architecture, AsystomPredict benefited the maintenance process very quickly.

AsystomPredict IN ACTION:

On the first installation, the solution **enabled the detection of faults which would have resulted in production shutdowns and costly repairs.** This prompted the TERREAL team to **install AsystomPredict on other sites.**

Examples of faults detected:
- The **detection of a broken shaft on the gear box** of a moulding machine that makes clay pads, **thus avoiding 3 days loss of production.**
- **Looseness on a bearing** for an oven fan was diagnosed, **preventing a failure which would have required 8 hours to repair.**
- Identification of a **faulty gear box avoided an estimated 4 hours repair**.

Jean-Frédéric Dalmasso, Head of Development for mechanical processes in the Innovation and Technical management team at TERREAL *«As a manufacturer, our objective is to be able to define predictive trends, to understand events that generate faults and therefore establish a plan of action to improve our processes and the end-product. Data is more and more valuable in our profession, and we use it to allow our process engineers and our IT department to collaborate and improve our clay manufacturing processes such as extrusion, pressing, rectification etc.»*

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