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30% improvement in the production plant's OEE

AUTOMATION WITH MIC SOFTWARE PLATFORM - SUCCESS STORY

CHALLENGE

This company felt that its equipment was being underused. It was overly dependent on manual operations and much of the equipment was standing still for longer than expected. It tried to increase production results by compiling data from the production process and used a partially automatic system to measure the OEE.

The management knew that the data collected was not precise and the production planning was not very reliable.

Faced with any change or machine downtime, the response time was delayed and reprogramming was slow.

They needed a production system with a reliable OEE in real time and which would also use the data to provide feedback on the process itself so that certain changes and decisions could be made autonomously.

REDUCTION OF EQUIPMENT DOWNTIME

RELIABLE AND REAL TIME MONITORING

MINIMISATION OF THE NUMBER OF DEFECTIVE PARTS AND REWORK

INTEGRATED INSPECTION OF PROCESSES

LESS DEPENDENCE ON MANUAL OPERATIONS

SOLUTION

The MIC platform has been implemented to connect assets, integrate inspection and manage the production process without supervision. It has been customised and the use of machines and their productivity have increased in a short time.

On the other hand, the process engineering team has detected areas for improvement and is responsible for optimising the company's production resources. A more robust system has been designed: less exposure to variability and increased stability in production.

Finally, the company has been accompanied throughout the change management, supporting staff in the acquisition of new skills.

RESULTS

NOW

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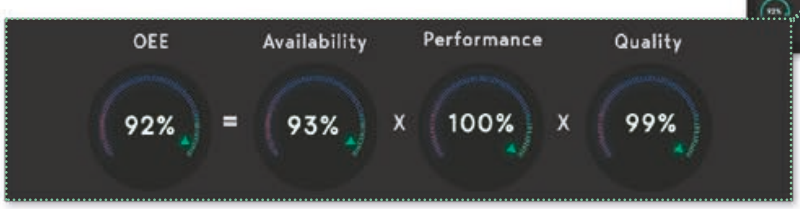
QUALITY HAS INCREASED
BASED ON INTEGRATED INSPECTION

- ✔ Inspection systems are integrated in the process: now constant and accurate information is now available on the quality of the parts.
- ✔ The platform reacts instantly to any critical incident, preventing defects from accumulating.
- ✔ The need for decision-making in every incident has been eliminated; the rules that activate timely automated actions are easily configured.
- ✔ Manual errors affecting the quality of the parts have been reduced.
- ✔ Waste material has decreased and the unit cost has been improved.



INCREASED **AVAILABILITY** OF EQUIPMENT

- ✔ Workflows are readjusted in real time.
- ✔ Inefficiencies have been reduced thanks to foreseeing equipment problems.
- ✔ Unsupervised running of the machines has been maximised.
- ✔ Continuous planning of tools and toolsets.
- ✔ Rework and stoppages have been reduced.
- ✔ Increased agility when it comes to introducing process changes.

INCREASED **PERFORMANCE** OF THE MACHINES

- ✔ The process is monitored in real time and offers information on the use of each machine.
- ✔ Operation time has been optimised autonomously and the variability of the process has been reduced.
- ✔ The lead time has been reduced and delivery times improved.

MIC MANUFACTURING INTELLIGENCE CORE

Implementation of the MIC platform has resulted in the following benefits:

- ✔ **OEE improvements from 30%** onwards
- ✔ Up to **40% increase in available capacity**
- ✔ Improvements in **unit cost per part 15-20%**
- ✔ Over **30% reduction in intermediate stock**

DISCOVER THE MIC CONFIGURATION OPTIONS
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