

SMARTPM

Industry | Future

Improve production planning and increase productivity

MIC PLANNER INTELLIGENT PLANNING MODULE - SUCCESS STORY

CHALLENGE

The company needed to increase its workload planning capacity to make it more agile and reliable. It needed to adapt to an increasingly dynamic environment, in which customers call for ever shorter lead times for smaller series and more complex processes.

Production planning soon lagged behind and was not coherent with the reality of the workshop. Too many manual operations and unscheduled reprocessing led to periods of inactivity and delays.

The inflexibility of the process had a negative impact on productivity and the company did not have reliable data to help optimise the equipment, resolve bottlenecks and improve the plant's data.

SOLUTION

The MIC (Manufacturing Intelligence Core) platform has been implemented to connect machines, integrate inspection and manage the production process remotely, collecting data in real time.

The system has in-depth knowledge of the process and handles all of the planning with precision. MIC supervises and evaluates all phases, whether automatic or manual, ensuring optimum performance at all times.

The MIC PLANNER intelligent planning module has been integrated in its configuration, optimising workflows autonomously and dynamically.



"Technology that enables OEMs to meet these demands has matured to the point that it is affordable, shifting the balance between the cost and the benefit of flexibility."

"At the end of the line", Strategy& y Fraunhofer IOSB

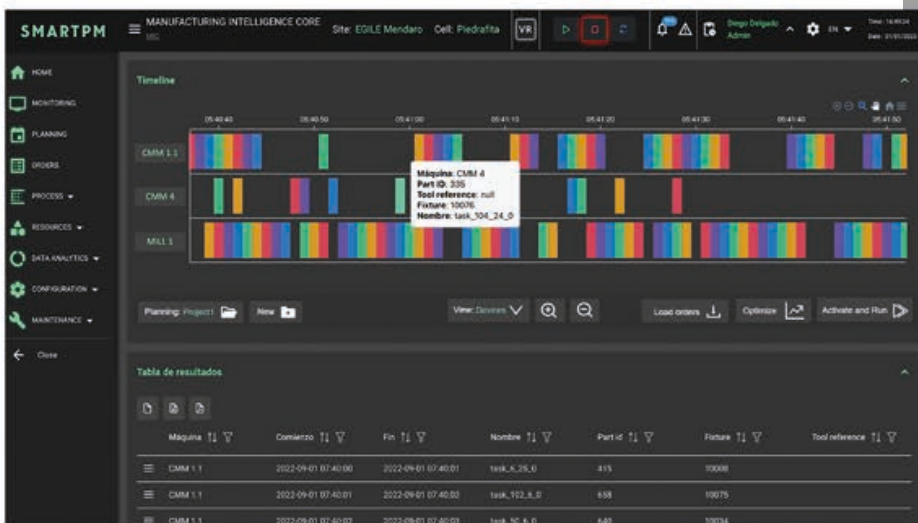
KEY FEATURES

MIC PLATFORM

- Connects assets and automates industrial processes.
- Manages workflows autonomously and in real time with minimum intervention.
- Integrated inspection.
- Scalable and modular.

MIC PLANNER MODULE

- Dynamically optimises planning based on algorithms and defined criteria.
- The availability of all the resources is taken into account: people, equipment, tools and toolsets.
- Planning is automatically updated when indicated and adapted to the desired production variables.



On the other hand, thanks to process engineering, a more robust process has been designed. Areas for improvement have been detected and the company's available production resources have been optimised.

Finally, the company has been accompanied throughout the change management, involving staff in the process from the outset, minimising barriers to change.

RESULTS

NOW

INCREASED AVAILABILITY OF EQUIPMENT

- ✓ Automatically avoids bottlenecks.
- ✓ Anticipates equipment problems and reduces downtime.
- ✓ Inefficiencies have been reduced thanks to foreseeing equipment problems.
- ✓ Rework and stoppages have been reduced.
- ✓ Increased agility when it comes to introducing process changes.

MORE EFFICIENT PRODUCTION

- ✓ Workflows are readjusted in real time.
- ✓ Dependence on manual data input has been reduced.
- ✓ Real-time response in accordance with the data obtained from the production (dynamic management).
- ✓ Production is constantly optimised and fast reaction to change and unforeseen situations.
- ✓ The need for decision-making in every incident has been eliminated.
- ✓ Constant planning of tools and toolsets.

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 implementation and the integration of its PLANNER module have 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
smartpm.es

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