Maestro connect

Connected intelligence for greater efficiency





MAESTRO CONNECT IS THE IOT PLATFORM PERFECTLY INTEGRATED WITH THE LATEST-GENERATION SCM MACHINES

Maestro Connect is able to offer customised micro services through the use of IoT Apps that support the daily activities of industry operators - improving the availability and use of machines or systems.

The platform displays, analyses and monitors all data from connected machines. The data collected by the machines in real time become useful information to increase machine productivity, reduce operating and maintenance costs and cut energy costs.

into useful, value-generating information.



Maestro connect

MAESTRO CONNECT IN 4 STEP:



CONNECT THE SCM MACHINES TO THE INTERNET



COLLECT ALL CLOUD-BASED MACHINE DATA



MONITOR, EXAMINE AND ANALYSE Data are monitored, examined and subsequently aggregated and analysed to become significant business-related content.



DECIDE AND ACT
Real-time data are conducive to
decision-making, and to planning
any corrective actions and improving
production-related issues.



MAESTRO CONNECT IS ACCESSIBLE FROM PCS OR SMART DEVICES AND INCLUDES THREE DIFFERENT, MUTUALLY INTEGRATED APPLICATIONS.

SMART MACHINE

Section designed for the continuous **monitoring of machine operation**, with information on:

Status: machine status overviews both live and on a historical basis. The representations provided allow machine availability to be checked - to identify possible bottlenecks in the production flow.

Monitoring: instantaneous, live display of the operation of the machine and its components (spindle, vacuum pump, etc.), of currently running programs and potentiometers.

Production: list of machine programs run within a given timeframe with best time and average running time.

Alarms: active and historical warnings.

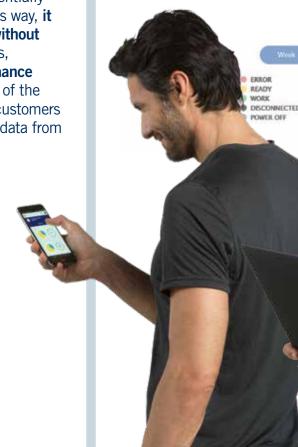
SMART MAINTENANCE

This section provides a **first approach to predictive maintenance** by sending notifications when machine components indicate a potentially critical state associated with reaching a certain threshold. In this way, **it is possible to take action and schedule maintenance services, without any down-time.** By constantly monitoring the use of components, Smart Maintenance offers a genuine **"condition-based" maintenance service,** which allows action to be taken based on the efficiency of the components. Smart Maintenance also makes SCM's support to customers more specifically targeted and faster through a constant flow of data from the machine to the Service suppliers.

SMART MANAGEMENT

Section designed for KPI (key performance indicator) presentation for all the machines connected to the platform. The indicators provided assess:

- the availability and productivity of the machine;
- the efficiency of the machine;
- the quality of the product.



Maestro connect

MAXIMISED SECURITY

Maestro Connect uses the standard OPC-UA communication protocol, which guarantees the encryption of data at Edge interface level. Maestro Connect's Cloud and DataLake levels meet all state-of-theart cyber-security requirements. Customer data are encrypted and authenticated to ensure total protection of sensitive information.



Optimisation of production performance

Maestro Connect offers suitable tools for observing and reckoning actual production data in order to identify any production defects and plan corrective actions. It is possible to keep track of any triggered alarms and analyse their causes, be alerted in case of repeated problems that may be observed by different operators, and obtain real-time production data - even remotely.

+ 25% efficiency

Maestro Connect allows more effective machine use-related cost control to be achieved, the actual production costs for a given workpiece to be calculated, and machine stops to be tracked.

ADVAN

Diagnostics to support components warranty optimisation

The smart machines by SCM with Maestro Connect cloud platform options will be able to generate notification alerts when the use thresholds set by the manufacturer are reached and parts need to be replaced. Maestro Connect is able to monitor the state and main parameters of the main operating groups (spindle, vacuum pump, lubricator, etc.) - helping identify the potential causes of finished product quality degradation, thus reducing the warranty costs due to component misuse.





Productivity increase and downtime reduction by 25%

Production never stops with Maestro Connect. Maestro Connect checks the machine status in real-time, providing useful information for the decision-making process and for production planning.

Improvement of quality control

Maestro Connect is able to monitor in real time the machine parameters that contribute to determining processing quality - such as the conditions of use and the state of the various machine operating units.

Maintenance costs down by as much as 50%

Maestro Connect allows for greater diagnostics accuracy with subsequent shorter troubleshooting time by the technical support staff.

The platform also makes it possible to check that the machine works in optimal conditions, extending the life of components.

Automatic and periodic maintenance notifications also allow for timely planning and better maintenance work organisation - including service scheduling in advance and routine maintenance planning.

Work simple. Work digital

REV. N. 00 - 06.201

