

Cms connect

Connected intelligence for greater efficiency

Cms Digital Systems



CMS CONNECT IS THE IoT PLATFORM PERFECTLY INTEGRATED WITH THE LATEST-GENERATION CMS MACHINES

CMS Connect is the industrial-IoT platform that offers new and unbeatable services to improve the overall efficiency of CMS machines and constantly monitor their use.

CMS Connect displays, analyzes and monitors all the data from the connected machines transforming it into useful information **to increase productivity and reduce operating and maintenance costs.**

All the data transmitted by the machine is analyzed in real time, to display all the essential data to the operator and all those in charge, **24/7. From any device!**

CMS CONNECT IN 4 STEPS:

- 1 **CONNECT THE CMS MACHINES TO THE INTERNET**
- 2 **COLLECT ALL CLOUD-BASED MACHINE DATA**
- 3 **MONITOR, EXAMINE AND ANALYSE**
Data are monitored, examined and subsequently aggregated and analysed to become significant business-related content.
- 4 **DECIDE AND ACT**
Real-time data are conducive to decision-making, and to planning any corrective actions and improving production-related issues.



IoT - INTERNET OF THINGS

The expression **Internet of Things** refers to a world in which “things” (devices, systems, machinery) become intelligent (smart) by being connected, i.e. able to log in to the Internet, and consequently exchange data on their state and access aggregate information from other entities. At one end, there is the **Internet**, as a system for transmitting information. At the other end, there are the products (“things”) that are **smart** and **connected**. **The physical world connects to the digital world:** the data collected, aggregated and analysed become accessible on cloud platforms, where applications and services transform them into useful, value-generating information.

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

Monitoring production efficiency

It monitors all the connected machines in real time via a single page, giving the client the opportunity to customize his/her production goals and pinpoint the shifts done each day on all the machines.

Tool management

It controls the tools fitted on the machines, receiving notification when the time has come to replace them.

MAXIMISED SECURITY

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

Reduction of machine downtimes

When a problem arises, CMS Connect provides the following tools to intervene rapidly:

- Alarm history monitor.
- Monitor of machine's main components.
- A database constantly updated by CMS with possible troubleshooting issues, to deal with the most complex situations.
- Periodically, the information gathered is sent to the user using push notifications (via e-mail and Mobile App).
- Internal messaging service which the operator can use to send messages to his/her head of department directly from the machine.

Maintenance work

Planning maintenance work on the machine with CMS Connect has never been easier:

- Planning ordinary maintenance work recommended by Cms and carrying it out following a step-by-step procedure.
- Create and manage personalized work.
- Assign jobs to one's workers.

Ticketing service to CMS

Do you need help from CMS? No problem! Open a client service ticket, wherever and whenever (PC, Smartphone, Tablet or Operator Panel).



Optimisation of production performance

CMS 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.

Efficiency

CMS 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.

Diagnostics to support components warranty optimisation

The smart machines by CMS with CMS 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. CMS 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.

ADVANTAGES

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Productivity increase and downtime reduction

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

Improvement of quality control

CMS 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

CMS 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.





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