

## Tool machinery predictive maintenance solution

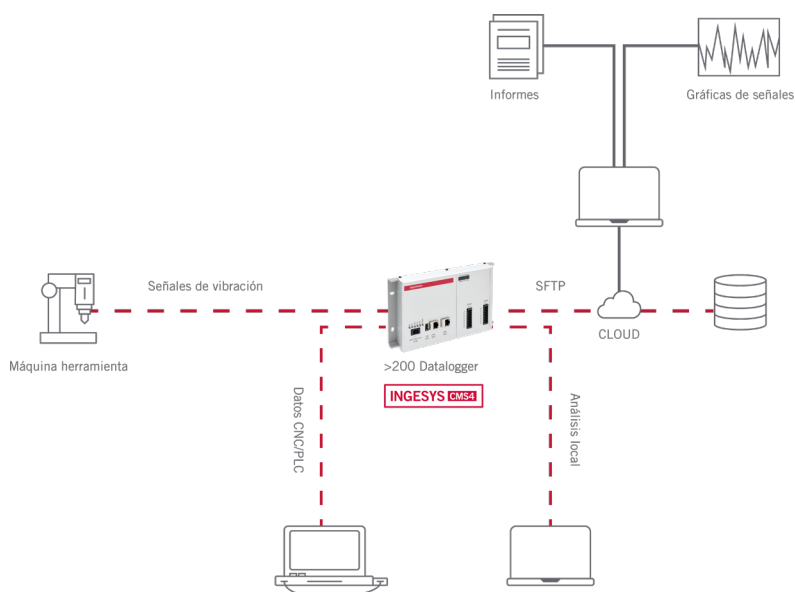
Since 2014, Ingeteam has supplied its INGESYS CMS4 systems for monitoring the status of the machines to a world leader in the tool machinery sector.

Using INGESYS CMS4 devices, the manufacturer captures critical signals from the machine and makes it possible to anticipate and prevent possible failures optimising the maintenance work.

The INGESYS CMS4 solution allows the customer to improve in:

- The quick and autonomous detection of vibrations during the mechanising process
- Remote diagnosis of machine failures via cloud computing
- Optimising and extending the life of cutting tools

## Ingeteam's datalogger solution for tool machinery



# CONDITION MONITORING SOLUTION

## Tool machinery (Spain)

### Scope of Supply

#### INGESYS CMS4

##### TECHNICAL CHARACTERISTICS

Controller	INGESYS CMS4 controller
CPU	32bit 400MHz processor
Communication	2x Ethernet RJ45 1x Profinet
I/O modules	6x IEPE analogue inputs 2x Fast analogue inputs

##### INGESYS CMS4 DATALOGGER FEATURES

Data to be recorded	Fast analogue and vibration signals
Communication with machine	Profinet, Modbus
Communication with Cloud	SFTP, MQTT

##### SOFTWARE

Programming	Embedded Web Server HMI Web IEC61131-3 (specific functions, communication libraries and standards), C/C++, Matlab/Simulink
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##### STANDARDS

Immunity and Emission	EN 50121-3-2:2016
Temperature range	EN 50155:2017 [OT4 (-40°C +70°C)]
Vibration	EN 50155:2017 [Body Mounted, Class B] / IEC 61373:2010
Fire Protection	EN 45545-2

##### MECHANICAL CHARACTERISTICS

Material	Aluminium
Dimensions (W x H x D)	224x135x34.6 mm



INGESYS CMS4 Datalogger

The technical data in this document is subject to change without prior notice. CS5.1IPTT01B/0925