

FOCUS
tecnico

CONDITION MONITORING SYSTEM

IL GRUPPO

GMM
Industrial components

BBM
Maintenance Partner

MEDICI
Professional Equipment

GMM USA
Industrial Solutions

BBM Maintenance Partner for milling and grinding equipment.

BBM Maintenance Partner, a GMM Group member company and a leading supplier of Condition Monitoring services for the ceramic industry, has long been engaged in research into sophisticated new technologies capable of reducing production line maintenance costs and shortening service times in the event of plant malfunctions. In this context, continuous monitoring of the state of health of machinery is a strategic tool capable of identifying and recording malfunctions at an early stage, preventing unplanned machine stoppages and avoiding the consequent economic losses.

Following its participation at Tecnargilla 2016, BBM offers the ceramic industry the use of **Vibguard®** terminals developed and produced by **Prüftechnik**, the German multinational engaged in research and development of condition monitoring systems for rotary machines.

Thanks to BBM's extensive presence in the maintenance market and the quality and reliability of Prüftechnik products, companies will be able to benefit from constant in-depth monitoring of the state of health of the continuous mills and of fans installed on the kilns.

The **Prüftechnik** solution provides real-time information on the conditions of the plant. In particular, it evaluates bearing wear even at extremely low operating speeds, the state of gear meshing, the main mechanical abnormalities (imbalance, misalignment, slack, resonances, etc.) and electrical faults (inverter anomalies, stator and rotor asymmetry, and bar and power supply defects). Alarm management is immediate and can be shared via smartphone.

The proposed solutions range from 6-channel terminals for individual assets

through to systems with 20 synchronised channels for monitoring vibrations, oil quality and contamination from slip and for monitoring the operational parameters of the mill's drive chain.

More flexible kiln monitoring solutions with extended architecture capable of mapping 54 machines simultaneously are available based on terminals that acquire up to 162 channels.

For the purpose of cutting costs without sacrificing innovation and optimisation of production, BBM encourages Italian companies to adopt the **Vibguard®** system so they can benefit from the advantages provided by the Budget Law for Industry 4.0.

