



PROBLEM SOLVED™ PAPER

SOLUTION: Belt cleaners, N2 remote monitoring and safety protections

INDUSTRY: Aggregate & Precast Concrete

LOCATION: Italy

TITLE: Paving the Way to Sustainability



Goals of environmental sustainability need to converge seamlessly with financial and operational objectives



N2® Position Indicator (PI) system effectively enables remote monitoring of the condition of belt cleaners

PROBLEM

A renowned company specializing in the production of interlocking concrete pavers and innovative eco-friendly panels faced significant challenges in maintaining business sustainability. The situation reached a critical point when an inspector mandated immediate improvements to environmental conditions at the processing plant, specifically calling for the reduction of dust emissions and material spillage from conveyor belts. The facility includes multiple production zones, each presenting distinct challenges based on the type of raw materials being transported and the maintenance status of the equipment in use.

SOLUTION

The solution recommended by Martin was both sophisticated and comprehensive. Technicians installed Martin® QC1™ Cleaner HD Primary and Martin® SQC2 Secondary Cleaners across multiple conveyor belts, utilizing various types of urethane tailored to the specific application demands. To enhance monitoring of belt cleaners on hard-to-access conveyors the N2® Remote Monitoring System was installed at five locations. Additionally, the team upgraded several transfer points to control dust emissions and introduced conveyor guards to allow for easy inspection - enhancing both worker safety and the facility's overall environmental performance.

RESULT

The installation has not only made the operation better from a health, safety and environmental perspective, but has also improved uptime and maintenance efficiency. N2 allows the operator to monitor the new belt cleaners from a mobile app and there are plans to expand the number of PI units.

The operator has embarked on a journey of continuous improvement as part of their drive to make their processes cleaner, safer and more productive, supporting business continuity as well as enhanced profitability.



Safety first! Transfer point upgraded with a focus on dust and spillage control, and safer maintenance

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