



Application Story

Unitronics in Italy: Improved Lime Plant Process Control Boosts ROI

In the long run, obsolete, outdated process control systems result in reduced production that costs the manufacturer money.

Minermix s.r.l., one of Italy's most dynamic and versatile producers of lime and dolomite, recently made the decision to retrofit their machinery by introducing PLC automated control.

Minermix opted to use Unitronics PLC and integrated HMI controllers to update and simplify the current lime kiln, mill, and mixing plant control systems.



"Our goals were to efficiently communicate data between plant divisions, reduce human error, and achieve the best possible quality standards." says Fabio Stranieri, manager of Minermix's Electronic Controls division. "We also needed a powerful tool for calculating production, weighing, PID for gas flow, communication with external devices, alarms and so on."



The units they chose for this task were the Vision280™, Vision230™, Vision120™ and the EX-RC1 for remote, distributed control. The Vision280™ controls everything—the weighing system for limestone production, PID for gas and air regulation, the charging and discharging of the kiln, temperature and combustion process. In the second plant, the Vision230™ and Vision120™ control the mixing of minerals through mixers, augers, conveyors, pneumatic thrusters etc.

Stranieri was formerly a devout user of a competing PLC line. He switched to Unitronics mainly because "Our previous controllers could not compare with Unitronics products, which are much easier to use, and are always reliable. Unitronics controllers have perfectly controlled every variable and point of our processes."