

## ***Particle size analysis helps cement producer improve quality and cut costs***

US cement manufacturer Florida Rock Industries of Jacksonville, FL, has significantly reduced energy consumption and improved product quality by using the powerful combination of a model predictive control package from Pavilion Technologies of Austin, TX, and real-time particle size analysis from UK-headquartered Malvern Instruments. The Insitec fineness analyser from Malvern and the Cement Grinding Application solution from Pavilion were installed to automate control and improve the efficiency of the finishing circuit that mills cement to the required fineness. Specific energy consumption (the amount of energy used to mill each tonne of cement) is now 17% lower, while the key performance indicator on one-day strength is up by about 15%. The company has estimated a return on investment of less than two years, based just on energy savings. [www.malvern.com](http://www.malvern.com); [www.pavtech.com](http://www.pavtech.com)



***Malvern Insitec fineness analyser installed on a cement line***