Process Machinery Brings TOTAL COST OF OWNERSHIP APPROACH to the Design and Construction of a New Aggregate Plant
When Process Machinery CEO, David Miles, learned that Bluegrass Materials wanted to upgrade a newly purchased quarry, he was excited about the opportunity. Not only would it be a great project, but it would also be a chance to work with the Baker family, the new owners and well-respected leaders in the aggregate industry.

Operating since the 1950s, the Bowling Green South Quarry still had 90 years of life left, but the plant was well past its prime and plagued by costly maintenance issues. Miles knew there would be a lot of competition for the job to design, fabricate and build the new plant, but he believed his team’s 34-year history and its focus on delivering the best total value would set it apart.

“We listened to their goals and tried to provide the best engineered project we could offer them,” says Miles. “They had a vision of what they wanted this plant to be, and we worked hard to give it to them. In the end, I think we brought the best solution to the table.”

Process Machinery designed and built an extremely flexible plant with a comprehensive blending system that allows the plant to make a full gamut of stone with a lot of blending combinations, as well as sand and lime products.

Fulfilling Bluegrass Materials’ request for long-term reliability and simplified maintenance was an easier task, according to Miles. Because, he says, they specified Baldor®Reliance® motors and Baldor®Dodge® gearing, bearings, and pulleys.

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Dave Miles, CEO, Process Machinery

“We stuck tried-and-true to our values and principles that we design all our plants around,” says Miles. “And that means we specify Baldor and Dodge products. This has been our specification for more than 30 years, and we have great comfort with it. Recommending these products was just one more way we brought value to this project.”

For the Bowling Green South Quarry project, Process Machinery selected Baldor’s Dodge Torque-Arm II® gearboxes, Imperial and Type E bearings, Mine Duty Extra pulleys, and Baldor®Reliance Quarry Duty and Severe Duty motors. Miles says they based all of these selections on proven quality and reliability.

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Baldor-Reliance Quarry Duty and Severe Duty motors are used throughout the Bluegrass facility. With heavy-gauge steel and cast-iron construction, these motors are designed to deliver reliable, rugged performance. Quarry Duty motors are Design C with increased starting torque, ideal for starting loaded conveyors.

Baldor’s Dodge Imperial-E spherical roller bearings feature a patented locking system that provides a concentric grip to the shaft for superior holding, with Type E mounting dimensions. Proven Trident seals provide maximum sealing protection and are extremely effective for harsh and dirty environments.

Baldor’s Dodge Mine Duty Extra Drum and wing pulleys feature the proven High Endurance (HE) integral one-piece end disc design that can handle loads up to four times higher than standard CEMA drum pulleys.

No one is more pleased with the way the plant turned out than Lindsey. He says his life is a whole lot easier these days with a plant that’s efficient and easy to maintain. He admits that it took him a while to get used to it but now enjoys coming up with a couple of little things every week to make the plant run even better.

“We got what we actually wanted,” says Lindsey. “We’re really happy with the plant. If I had to do this all over again, I would choose the same products, and I would lay it out the same way. I wouldn’t change a thing.”

That’s just the reaction that Miles likes to hear from a customer. He is also pleased with the way the plant turned out and proud that the Bakers trusted them to deliver an innovative design, constructed with high-end motor and mechanical components.

“We know we are not the cheapest in the industry,” says Miles. “But we like to think we offer the greatest value in the industry. This is an efficient plant that’s built to last with products that offer reliability, durability and maintainability. By taking the total cost of ownership approach, Bluegrass Materials has a plant that will be running for a very long time.”