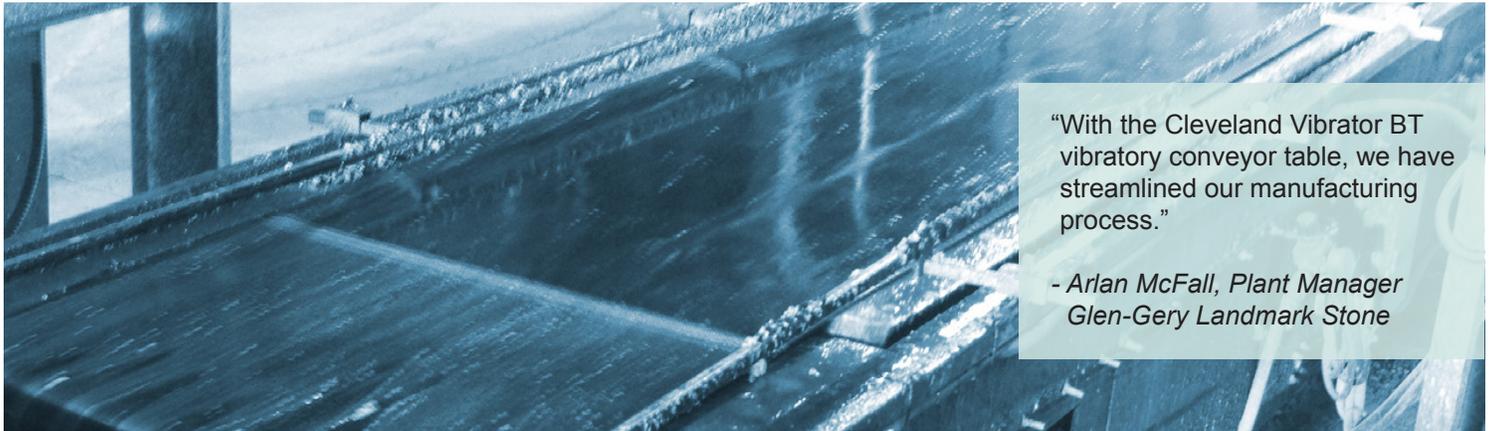




APPLICATION REPORT

Glen-Gery Landmark Stone relies on BT Vibratory Belt Table



“With the Cleveland Vibrator BT vibratory conveyor table, we have streamlined our manufacturing process.”

- Arlan McFall, Plant Manager
Glen-Gery Landmark Stone

APPLICATION ENVIRONMENT:

Building/Construction Materials



Glen-Gery Landmark Stone

FEATURED PRODUCT:



Cleveland Vibrator Co.
BT Flat Vibratory Belt
Table, Model BT-24144



- Electric powered
- Design load: 160 lbs. nominal
- Belt conveyor: 24"W x 144"L, 1.5 hp motor for 48 fpm belt travel
- Vibrating deck: 26"W x 96"L flat and 17-7/8" design to top of belt
- Drive: dual CVC Model RE-9-4 electric motor vibrators
- Mild Steel construction

CHALLENGE

Founded in 1890, Glen-Gery Corporation, an Oldcastle® Company, is the largest molded brick and fifth largest brick manufacturer in the U.S. The company's diverse catalog encompasses hundreds of brick and related building materials, including the Glen-Gery Landmark Stone decorative yet durable line of wet cast stone veneer products, accents and accessories. When the business realized its growth potential in residential and commercial construction sectors, plant personnel sought a way to improve manufacturing processes to achieve the desired natural stone appearance and quality of their molded concrete designs more efficiently, more reliably and in less time.

SOLUTION

The BT flat vibratory belt table from Cleveland Vibrator Company was installed at the Glen-Gery Landmark Stone manufacturing site, where molds containing wet cast concrete mixes are vibrated and conveyed 12 feet across the table through the use of adjustable, user friendly controls.



The BT-24144 belt table aids in regulating cycle times with variable controls for vibration frequency and conveyor speed.



Glen-Gery Landmark Stone runs the BT belt table eight to ten hours per day.



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The Glen-Gery Landmark Stone palette of more than 40 stone designs for residential and commercial markets depends on the heavy-duty construction and adjustable, reliable controls of the Cleveland Vibrator BT belt table to enable consistent vibration for concrete consolidation as molds are conveyed, and ultimately increase manufacturing throughput by 50 percent.



Glen-Gery Landmark Stone creates handsome molded concrete products that are designed to look like natural stone. These 1-foot flat wet cast stone materials are seen at new and existing residential and commercial construction locations across the continental U.S. With the growth in demand for the comforting look and appeal of their stone profiles and palettes, Glen-Gery Landmark Stone sought a way to reduce cycle time, control vibration for the removal air bubbles from filled concrete molds to consolidate mixes, and increase production throughput.

Manufacturing Process Improved

According to Arlan McFall, Plant Manager for Glen-Gery Landmark Stone, the Cleveland Vibrator Company BT flat vibratory belt table was installed in 2008 and has significantly improved operations. "With the Cleveland Vibrator BT vibratory conveyor table, we have streamlined our manufacturing process," explained McFall. "The BT table provides an ideal combination of reliability and convenience. It not only offers adjustable controls for the perfect vibration levels for the concrete mixes within our molds, but also conveys the molds."

At their 50,000 square foot Cynthiana, Kentucky facility, the BT flat vibratory belt table has four molds going on it at any one time. As one goes onto the table, another is conveyed off of the table. "The BT Table is constantly running," added McFall. "We run all of our straight faced 12-inch items on it eight to ten hours a day to fill orders from an assortment of more than 40 different types of cast stone varieties, with a range of colors to suit a wide variety of exterior and interior settings."

The Cleveland Vibrator BT table aids in the regulation of cycle times with variable controls. The speed of the belt and frequency of vibration are adjustable, allowing users to modify BT operation. "Most people do not realize the critical role that vibration plays in the process. If vibration is not synchronized, you could actually ruin a mix. Your concrete material within the molds could generate pinholes and the integrity of finished items could be compromised," stated McFall. "The BT table helps me regulate the vibration of molds on the belt which conveys them onto a gravity roller conveyor and this continuous and dependable flow has significantly bolstered the consistent manufacture of quality wet cast stones."

Glen-Gery Landmark Stone has also found that the Cleveland Vibrator BT table requires minimal training or maintenance. "This vibratory equipment is sturdy and well made and requires little or low maintenance," claimed McFall. "All that is needed is an occasional belt or motor replacement."

Solid Support and Resources at Cleveland Vibrator

In addition to finding success with the installation of their BT belt table, Glen-Gery Landmark Stone also believes they have found a steadfast partner and source for manufacturing challenges. "These are good people. Jack Steinbuch and everyone at Cleveland Vibrator Company are excellent to work with," said McFall. "First and foremost, they are vibration experts and their fabrication is outstanding, and I believe this translates across all industries, whether you are shaking dirt or any materials imaginable. Second, there is a distinct difference in the way they put their engineering into it. They work with you to ensure the equipment you have in mind will support your specialized needs. Third, people at Cleveland Vibrator Company are very responsive. I know I can count on them."

About Cleveland Vibrator Company

Since 1923 Cleveland Vibrator Company has been designing, manufacturing and supplying vibratory products and offering services to meet material handling needs. Our diverse products and knowledge ranges from the precise challenges of fine powder screening to the most rugged equipment feeder and conveyor applications. In addition to our breadth of capabilities, we differentiate ourselves with a unique focus on quality, integrity and customer service that has made us a partner with more than 15,000 organizations around the world throughout our 88 year history. Our comprehensive line of industrial vibrators includes unique air-piston vibrators, rotary electric vibrators, electromagnetic vibrators, turbine vibrators and ball vibrators used for bins, hoppers, railcars, foundry applications; rollover and core machine vibrators and more – in many sizes and varieties. Cleveland Vibrator fabricated products include air and electric powered vibratory feeders, screeners, ultrasonic screeners, conveyors and tables for light, medium, and heavy duty industrial applications.