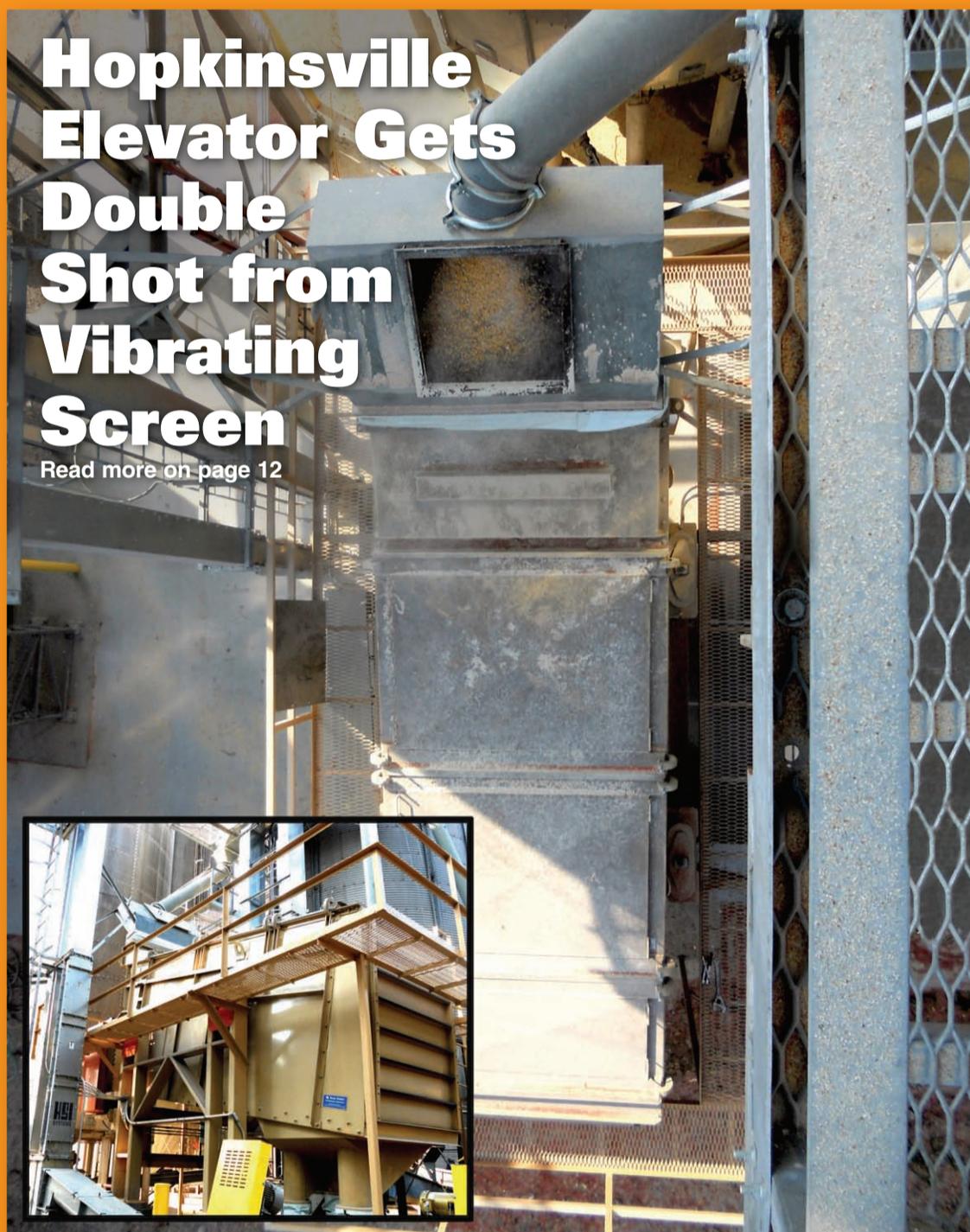


POWDER BULK SOLIDS

The Source for Dry Processing and Bulk Handling Technology



Hopkinsville Elevator Gets Double Shot from Vibrating Screen

Read more on page 12



Metal Detection

Reliable metal detection/rejection is easily achieved. However, location and use of metal detection inside the processing plant requires special attention.

Read more on page 6



Weighing Spotlight

For PLC systems that require weight data from a scale, compact SCT transmitters from Rice Lake Weighing deliver equivalent signal-conditioning function.

Read more on page 16



Drying Spotlight

Exair's 1 NPT stainless steel Super Air Nozzle delivers strong blowing force for blow-off, cooling, and drying applications in corrosive, high-temp environments.

Read more on page 26



Particle Size & Shape Analyzer with Advanced Software

The Haver Tyler CPA 2-1 is a photo-optical particle size and shape analyzer that is ideally designed for laboratory use for measuring dry, free-flowing, and non-agglomerating particles. What separates the CPA 2-1 technology from other particle analyzers is the exclusive Haver software that performs a correlation calculation, matching CPA 2-1 raw data to traditional test sieving results. The CPA 2-1 counts and measures, in real time, each individual particle of a representative material sample. It conveys dry, free-flowing material samples to fall past a high-resolution camera lens that is taking approximately 20,000 scans per second. This technology provides consistent, repeatable results.

W.S. Tyler, Mentor, OH 800-321-6188 www.wstyler.com

Cyclomix Speeds, Simplifies Cosmetic Production

Conventional four-step production of high-quality face powders, requiring multiple machines, is being replaced by single machine mixing using the Hosokawa Micron Cyclomix. No mill is required for dispersion of lumps. Lower investment costs, reduced cleaning and maintenance downtime, and improved product quality are driving this change across the cosmetics industry. The intensive but gentle mixing action of the Cyclomix is ideally suited for this, and with its constant circulation of the product, it leaves little product residue within the unit after discharge making the machine easy to clean and improving yields.

Hosokawa Micron Powder Systems, Summit, NJ 908-277-9205 www.hmicronpowder.com



Hopkinsville Elevator Gets Double Shot from Texas Shaker Vibrating Screen

Most people don't think about clean corn when they pour a cocktail. But that is not the case at Hopkinsville Elevator in Hopkinsville, KY, where employees are thinking about clean corn 24 hours a day, 7 days a week. Hopkinsville provides one of the three ingredients used in the production of whiskey: clean whole corn.

Hopkinsville Elevator began in 1968, when a small group of farmers developed plans for the forming of Hopkinsville Elevator as a cooperative. Approximately 180 investors proceeded to buy an existing grain facility to serve their needs. This facility had served the area for a number of years and had a capacity of 634,000 bushels. From this recent beginning the elevator had grown in membership to more than 2300 patrons in 34 surrounding counties. The elevator system has a combined storage capacity of over 15 million bushels, with additional locations at South Union, Russellville, Casky, and Guthrie in

Kentucky, and a barge-loading facility at Clarksville, TN.

In 2011, the elevator set out to double the cooperatives cleaning capacity by adding a new grain cleaner at the South Union location. The company chose a Texas Shaker vi-

brating screen from Triple/S Dynamics for its distillers' corn production. Triple/S sized a 6x10-ft, eight-deck arranged to scalp cob pieces and reduce F.M. to less than 1%, at 10,000 bushels/hr of dry shelled corn. The 6x10-ft screen decks are in four parallel sets of two, scalping through 1/2-in.-diam round holes and cleaning on 1/4-in. clear opening woven wire



Feed Inlet - Feed end of the Texas Shaker

screens. The dual purpose screen scalps corn across 240 sq ft of screen area, and cleans across 240 sq ft.

The incoming stream is automatically divided into four equal streams discharging onto the scalping screens. The corn passes through the 1/2-in.-diam scalping screen that retains the cob pieces, and over the 1/4-in. cleaning screen to separate the foreign

The coarse product and fines discharged from each of the four sets are brought together and discharged through three separate chutes - oversize, product, and undersize.

material and chips. The coarse product and fines discharged from each of the four sets are brought together and discharged through three separate chutes - oversize, product, and undersize.

The Texas Shaker oscillates in a straight horizontal line, 1 in. at 475 rpm. The gentle action is best for efficient screening. The screen decks are inclined downward at six degrees. Self-cleaning, removable ball decks resist blinding. Live rubber balls confined in grids under the screens bounce against



The 6x10-ft, 8-deck Texas Shaker at Hopkinsville Elevator

the screens to prevent blinding with pieces getting stuck in the openings. The attached vibrator module comprises two parallel gear-coupled unbalanced shafts, which counter-rotate to generate a straight-line inertia force. This makes it self-balancing; the inertia forces are absorbed in the motion of the machine. The shafts are mounted in spherical roller bearings and completely enclosed. Texas Shaker models are fully enclosed and dust-tight.

The Texas Shaker went into Hopkinsville in July of 2011. When asked if the new cleaner had met the company's expectations, Andy Newton of Hopkinsville said, "No. It is better than we expected. It's cleaning

out more fines than we ever anticipated and it is exceeding the capacity promised by Triple/S."

With over a century of applications experience, Triple/S Dynamics (Dallas, TX) is a leading manufacturer of conveying, screening,

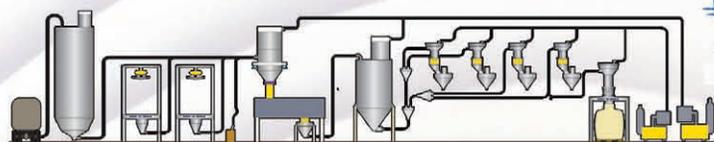
and separating equipment for the processing industries. Its diverse product line includes vibrating equipment, components, and systems, each tailored to the specific customer and their application. For more information, visit www.sssdynamics.com.



Feed and silo - Feed system including spreader box



Looking down at the Texas Shaker during production (same unit from side view)

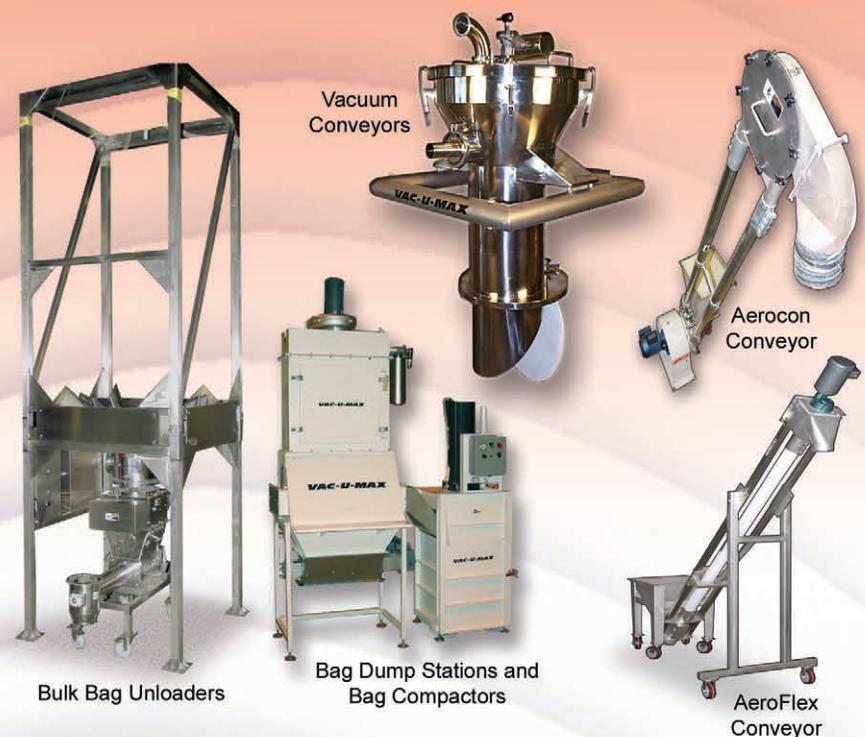


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