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**FOR IMMEDIATE RELEASE**

**Haver & Boecker Niagara Engineers New, Elliptical Movement Niagara XL-Class Vibrating Screen for High-Moisture Applications**

**ST. CATHARINES, Ontario** (Dec. 14, 2021) — [Haver & Boecker Niagara](http://www.haverniagara.com) has engineered a new, elliptical motion Niagara XL-Class vibrating screen for a Brazilian iron ore producer. The new technology is ideal for screening applications challenged with high-moisture content and can easily handle capacities up to 3,500 tons per hour while minimizing water usage. The XL-Class runs in an elliptical motion of up to 6g in a high-moisture iron ore screening application to ensure stratification in all phases of screening. The new vibrating screen also features a robust elliptical exciter drive that offers a bearing life up to 75,000 hours.

“We are dedicated to using innovative technological solutions to enhance our customers’ daily processes,” said Denilson Moreno, Haver & Boecker Niagara sales manager. “Our new XL-Class design is a prime example of that. The vibrating screen’s unique elliptical movement maintains unrivaled screening performance when processing high-moisture materials.”

Iron ore, for example, contains up to 15% moisture, and often behaves like a pasty, clay-like material, prone to blinding on a screen deck. The elliptical movement motion and increased acceleration of the XL-Class ensures that the material is stratifying without blinding or contamination.

The elliptical motion XL-Class vibrating screen is available in a wide-range of sizes, in either a single module or tandem design.

Haver & Boecker Niagara manufactures its own brand of [Niagara Exciter](#) technology which functions as the drive system for all elliptical XL-Class vibrating screens. The bridge-

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mounted exciters are available in five different sizes and offer the largest static moment range on the market.

Each elliptical XL-Class machine is custom-designed to the operation's specific application using Finite Element Analysis (FEA), which measures high stress areas and natural frequencies of a vibrating screen. The analysis helps engineers optimize machine performance by giving them the information they need to determine where to reinforce critical areas and reduce the weight of any oversized components. With more than 15 years of FEA and experimental measurement experience — and nearly 400 high-capacity vibrating screens supplied to the global market — Haver & Boecker Niagara is able to engineer state-of-the-art high-capacity vibrating screens that offer easy operation, low maintenance and unmatched reliability.

“The machine's capability to improve the outcome with high-moisture applications is a revolutionary development that is not only beneficial to this customer, but operations around the world,” Moreno said.

Operations can pair the elliptical XL-Class with the with the company's signature Ty-Deck Ultra modular screen media to maximize the screening efficiency of high-moisture material and address its challenges. Ty-Deck Ultra's accelerated screening action cleans material without the use of water, therefore reducing the need for tailing dams. With a 50% longer wear life than the [original Ty-Deck](#), the screen media panels are an ideal choice for screening high moisture materials, such as iron ore.

The elliptical XL-Class was strategically engineered to handle high tonnage production rates with natural moisture, yet designed for low maintenance, easy operation and unmatched reliability. For more information about this product or Haver & Boecker Niagara's wide range of other mineral processing solutions, visit [haverniagara.com](http://haverniagara.com).

### **About Haver & Boecker Niagara**

Haver & Boecker Niagara is a leading provider in screening, pelletizing and mineral processing plants and systems. The company's mission is to deliver the best of these technologies to customers in the mining, minerals, aggregates, cement, building products, recycling, fertilizer and salt industries. With deep roots and years of experience in these industries, Haver & Boecker Niagara uses its innovative and shared technologies to effectively meet the needs of customers around the world. For more information: email [info@haverniagara.ca](mailto:info@haverniagara.ca); [www.haverniagara.com](http://www.haverniagara.com); [Facebook](#); [LinkedIn](#); [YouTube](#); and [Instagram](#).

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