ERIEZ

B-HC HIGH CAPACITY VIBRATORY FEEDERS

SUPERIOR DESIGN • PERFORMANCE • RELIABILITY

About Eriez

Established in 1942, Eriez stands as a pioneering force in separation technologies, embodying a truly global presence.

With 12 wholly owned subsidiaries across the globe, we proudly design, manufacture, and support our material handling equipment, magnetic separation, metal detection, X-ray inspection, and flotation on an international scale.

Our dedicated team of knowledgeable and experienced sales engineers collaborates closely with customers, understanding their unique challenges to deliver dependable, high-performance equipment, systems, and solutions.

Whether clients require our standard equipment or custom solutions tailored to their precise specifications, Eriez delivers.

Drawing from more than 80 years of experience across diverse industries, including mining and minerals processing, food processing and packaging, aggregates, metals recycling, and many other sectors, Eriez leverages its extensive experience to design and supply products that elevate productivity, efficiency, and product purity.

Eriez remains steadfast in its commitment to setting the global standard for excellence in key technologies, driving innovation and reliability across industries worldwide.

B-HC High Capacity Vibratory Feeders

Industry-Leading Performance

Eriez' B-HC High Capacity Feeders effectively meter materials for high-demand use.

The B-HC line offers the widest capacity range in the industry. Capable of delivering controlled amounts from just a few kilograms to 1,089 metric Tonnes (1,200 Tonnes) of bulk material per hour.*

Four models give you the flexibility you need, with the 65, 75, 100, and 120 models.

Features

- High-capacity electromagnetic drive system
- Designed for continuous, high-throughput applications
- Standard and custom engineered tray designs for your specific application
- Base or suspension mounting options
- Heavy-duty structural design for reinforced durability
- Optional abrasion resistant steel, chrome carbide stainless steel or UHMW liners

Rugged Construction

Built for continuous use, each B-HC Feeder is made to handle bulk flows time and time again. With no wear, rotating, or sliding parts, maintenance is minimal. Help reduce downtime with equipment that's always on the job.

The electromagnetic coil and rare earth armature are a proven design that requires minimal maintenance and extends the life of the feeder. The drive assembly is enclosed, remaining dust and moisture resistant. This extends coil life and allows for continuous use.

Space-Saving Convenience

With a specialised low-profile design, each model of B-HC Feeders has a smaller physical footprint. Ideal for head load applications below hoppers, it meters material to belt conveyors, screens, crushers and elevators. While the throughput increases, valuable spaces are saved — a fit for virtually every environment.

**Based on sand at 1.6 metric Tonnes/m^3 (100 lb/ft^3).*

B-HC High Capacity Vibratory Feeders

Variety of Trays

Eriez offers a wide variety of tray and trough sizes and types for specific applications. Flat, open trays are common but tubular trays, and screening trays are available. Other custom options offered include inlets, outlets, tray covers, cleaning ports.

Typical construction material consists of mild or stainless steel. For harsh applications such as glass cullet, limestone or other abrasive products, replaceable tray liners such as UHMW, stainless steel, AR steel, chrome carbide or other materials can be provided.

Applications

- Bulk Material Handling
- Aggregates
- Cement
- Heavy Industrial Operations
- Mining and Minerals Processing

Feed Materials

- Aluminium
- Bronze Chips
- Glass Batch
- Cement Clinker
- Aggregate
- Borax
- Asphalt
- Copper Ore
- Ash
- Granite
- Bauxite
- Coal
- Coke
- Iron Ore
- Quartz

Controls

Superior Drive Design

The Eriez Full Wave drive design is powered by alternately opposing and attracting magnetic forces. This rapid, automatic switching causes a vibration, which provides a simple yet powerful solution to difficult material feeding applications.

Traditionally, competitors have used an inefficient attract-release design, in which an electromagnet pulls the tray in one direction and the feeder springs cause the tray to snap back in the opposite direction.

The Full Wave drive has the effect of progressively closing the magnetising circuit through the electromagnet core, providing a progressively increasing magnetising force upon the permanent magnet. The demagnetising force is very minor, since the action described also has the effect of progressively opening the demagnetising circuit.

On the opposite side of the sine wave the polarities of the electromagnet are reversed. The armature is driven in the opposite direction, and again there is a net magnetising force on the permanent magnet. There is always a predominant magnetising force impressed upon the permanent magnet that prevents it from ever losing its strength.

Since the amplitude of vibration depends directly upon the forces applied at the poles, and since these forces depend directly upon the applied AC voltage, simple variation of the AC voltage from zero to maximum results in similar amplitude variation from zero to maximum.

The basic simplicity of a drive powered by alternately opposing and attracting magnetic forces assures low maintenance. There are no sliding or rotating parts. The positive driving force of Eriez units provides stability, control, and unexcelled accuracy.

UniCon-HC Controls

Compact AC controls regulate feeder speed by varying applied voltage and are available for automated operation.

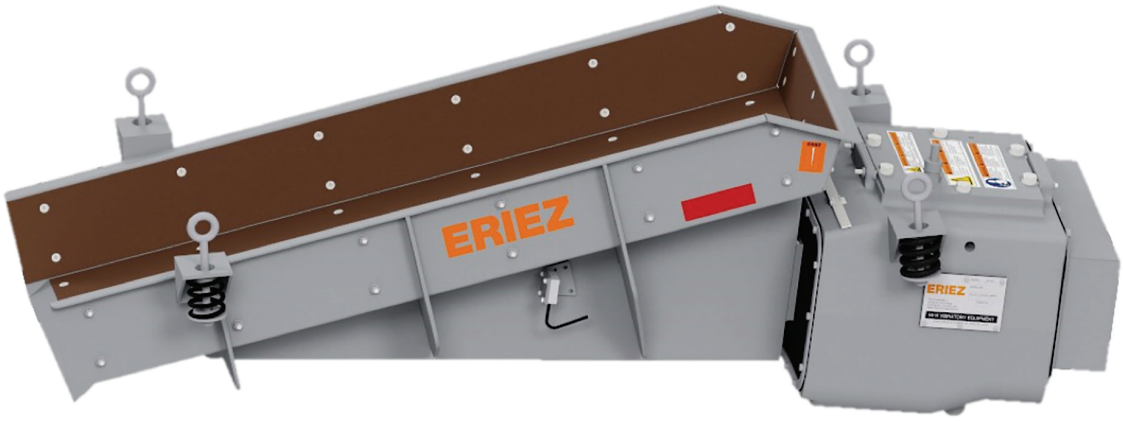
- Remote On/Off
- 115, 230, 380, 460 and 575 Volt & 50 or 60 Hz options
- Voltage regulation for precise feed rate control
- Nema 4/IP65 enclosure designed for performance
- CE, UL, and CSA compliant

65B-HC High Capacity Vibratory Feeder

Feed up to 272 Metric Tonnes (300 Tonnes) per hour at 60 Hz* and 227 Metric Tonnes (250 Tonnes) per hour at 50 Hz*

Ideal for installations requiring dependable feeding in a confined space, this feeder offers robust performance in a compact footprint. Designed for primary and secondary feeding systems, it is ideally suited for transfer points.

The 65B-HC delivers reliability and control in demanding environments where space and performance both matter.



75B-HC High Capacity Vibratory Feeder

Feed up to 481 Metric Tonnes (530 Tonnes) per hour at 60 Hz* and 399 Metric Tonnes (440 Tonnes) per hour at 50 Hz*

Bridge the gap between compact and large-capacity feeders, for the balanced power needed in high-volume applications. Perfect for a primary or secondary checkpoint in bulk material handling, it increases throughput with the same rugged construction found throughout the B-HC line.

The 75B-HC is built for dependable performance where productivity and durability are essential.

100B-HC High Capacity Vibratory Feeder

Feed up to 816 Metric Tonnes (900 Tonnes) per hour at 60 Hz* and 680 Metric Tonnes (750 Tonnes) per hour at 50 Hz*

Engineered for high-volume throughput, the 100B-HC is designed for large-scale operations. Bulk material transfer systems that demand consistent, high-capacity material flow under severe operating conditions can trust this feeder.

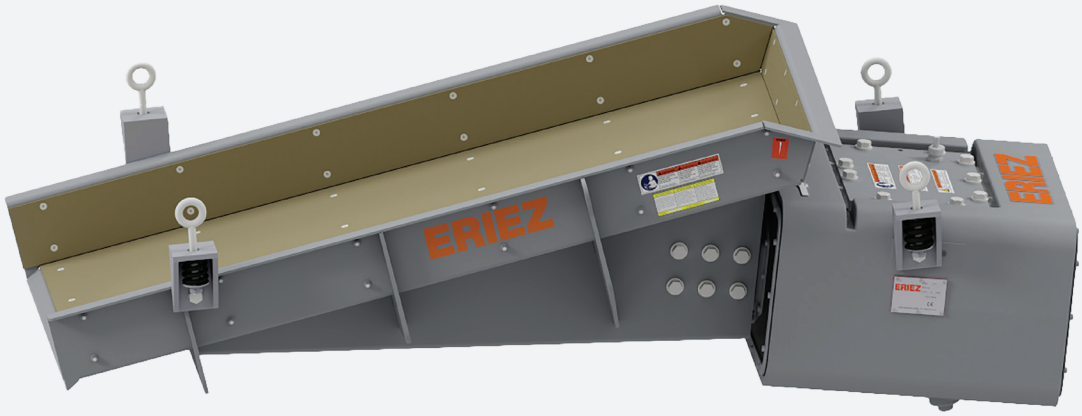
The 100B-HC is built for performance and longevity, ensuring reliable operation even under the most demanding conditions.

120B-HC High Capacity Vibratory Feeder

Feed up to 998 Metric Tonnes (1100 Tonnes) per hour at 60 Hz* and 982 Metric Tonnes (891 Tonnes) per hour at 50 Hz*

For the maximum volume, the 120B-HC represents the highest-capacity feeder in its class. In the most demanding material handling environments, it delivers unmatched durability and throughput. Built for full-scale mining, minerals processing, and heavy industries, it's ideal for large-scale operations.

When performance cannot be compromised, the 120B-HC delivers unmatched durability and throughput.



**Capacity is based on dry sand weighing 1600 kg/cu m/cu ft (100 lb/cu ft) with a 610 x 915 mm (24 x 36 inch) trough at a 10° downslope, and skirt boards included on hopper for maximum material depth of flow. Dimensions are approximate, drawing is available for installation.*

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