

WALKING FLOOR[®] Stationary Bins



Moving more than materials,
we move your business forward.

KEITH
MANUFACTURING CO



KEITH bins are designed to move tons, not pounds.

KEITH® *WALKING FLOOR*® systems are suitable for receiving, storing and metering a variety of materials. Bins are custom-engineered from concept to construction and can be designed to virtually unlimited dimensions and weight capacity. Configurations are based on customer specifications and include large and small storage bins, loader-fed bins, pit mounted systems and DrivOn™ solutions. Floors are bi-directional, providing fast unloading or loading. *WALKING FLOOR*® systems can also be constructed to include multiple bins, walls and roofing.



HOW IT WORKS

Powered by a hydraulic drive, the floor “walks” material to the discharge end of the bin.

The *WALKING FLOOR*® system is a horizontal loading and unloading technology. While in motion, the floor slats remain horizontal, reciprocating sequentially and then in unison to convey the material. A drive system, powered by a hydraulic power unit, activates the floor slats.

▶ WATCH IT WORK





Increases Efficiency.

Choosing the right material handling system boosts plant efficiency. Materials are stored until needed, freeing equipment and allowing operators to focus on other duties. An even material flow, controlled manually or by sensors, can further simplify the material handling process.



Cost Effective.

Power requirements are low for startup, reducing energy costs and providing optimal material throughput with the least amount of expended energy. Systems automate the feeding process, helping to reduce direct labor costs.



Custom Solutions.

KEITH specializes in designing custom solutions for your unique material handling needs. The systems are custom engineered to fit your specifications and can be constructed to a large variety of configurations with various components and options from which to choose.



RECEIVE IT—STORE IT—METER IT

Agriculture:

Compost, Seed, Cotton, Fertilizer, Grain, Livestock Feed, Corn

Refuse and Recyclables:

Municipal Solid Waste, Commingled Recyclables, Demolition Debris, Aluminum, Biosolids, Scrap Metal, Tires (shredded, chipped & whole), Plastic, Cardboard, Paper, Organics

Wood and Paper Products:

Finger Joint Blocks, Broke Paper, Pulp, Sawdust, Mulch, Wood Waste, Chips

Energy/Fuel:

Hog Fuel, Biomass, Bagasse, Chipped Tires, Pellets, Pucks, Refuse Derived Fuel



DrivOn® & Loader Fed Bins

Loader Fed Bin

Installing a loader fed bin can increase efficiency, allowing material to be stored until needed. This frees equipment operators to focus on other duties, rather than feeding the system. Bins can be fed with a loader or crane. Loader fed bins are used in a variety of industries, including wood products, agriculture, recycling, and energy production. Large and small loader fed bins are available, depending upon the needs of the facility.



Handling Solutions for Difficult Materials

DrivOn® Bin

DrivOn® bins allow you to unload material directly onto the KEITH® *WALKING FLOOR*® conveying system, even when it is in operation. Systems provide a consistent first-in, first-out product rotation. A variable volume/discharge control provides maximum throughput and the ability to handle changing material conditions. A DrivOn® bin can be designed with an open or enclosed top to meet site requirements. Roll up door option contains the material to use system as a storage bin.

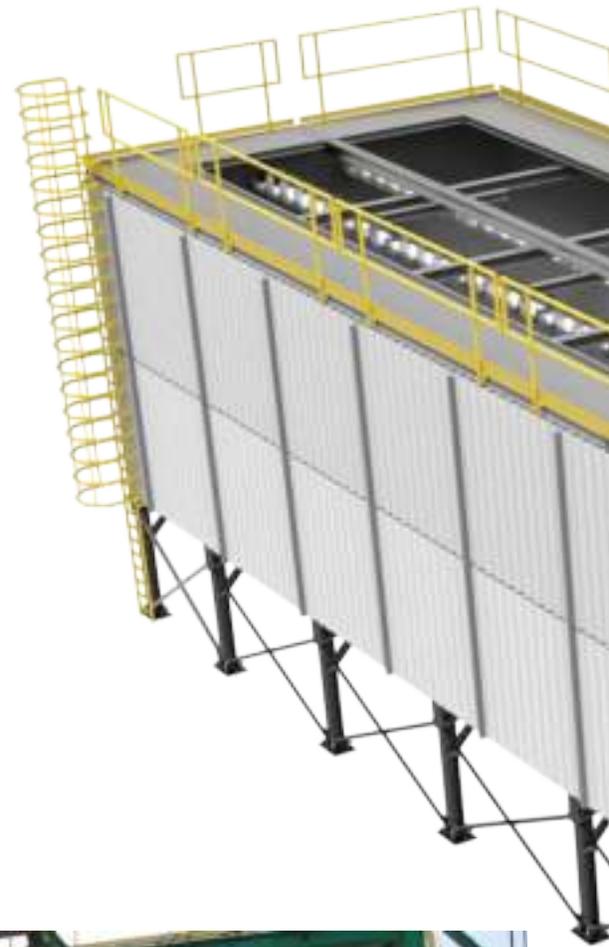
WALKING FLOOR® Trailer

Semi-trailers outfitted with *WALKING FLOOR*® systems maximize volume and weight capacity, work under low headroom conditions, discharge partial loads, and are not prone to tipping on unstable ground or in windy conditions.



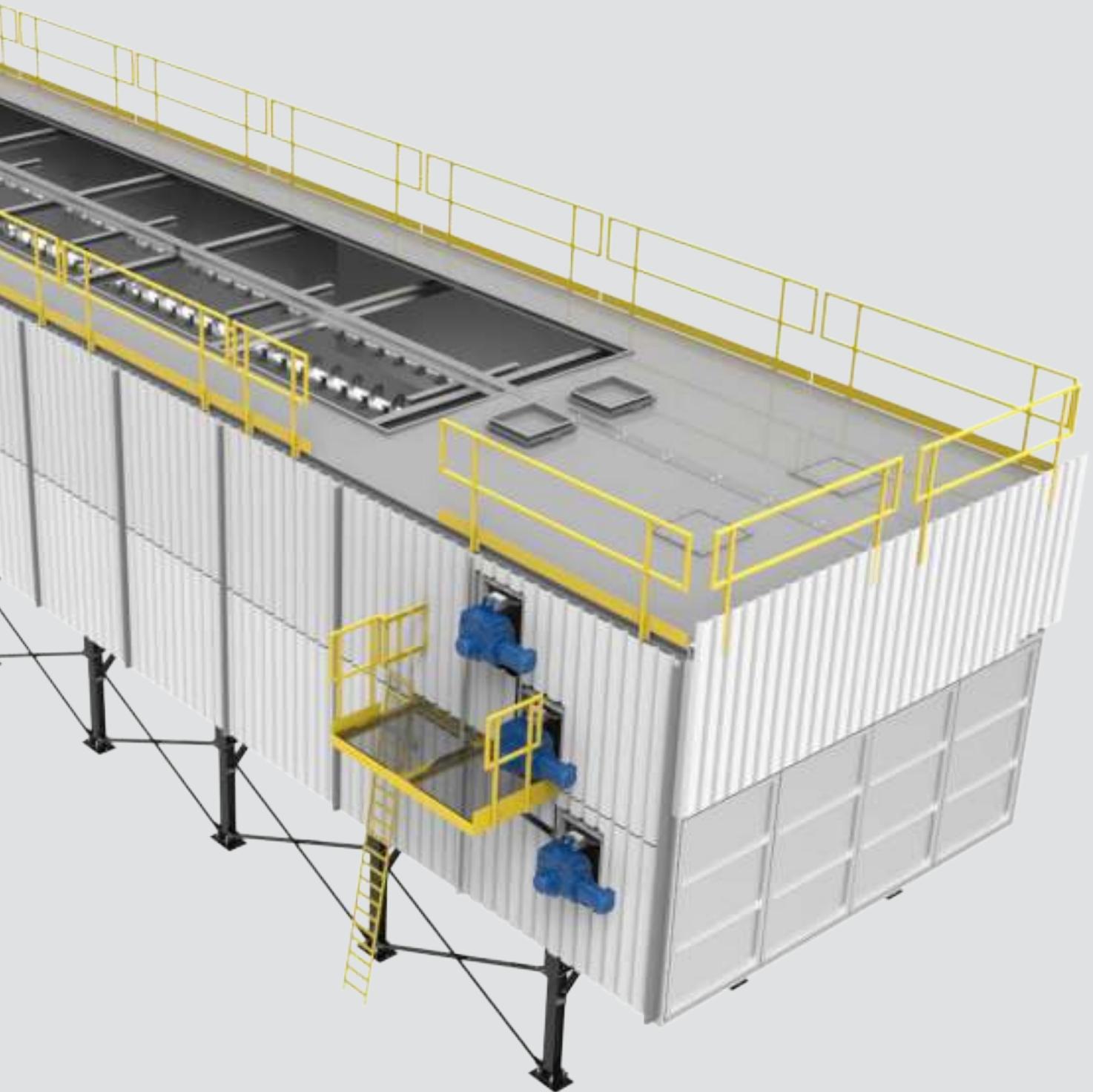
Large & Small Storage Bins

KEITH® *WALKING FLOOR*® solutions are incorporated into facility designs for maximum efficiency, with site-specific engineering based on the customer's needs. Storage bins can be designed for up to 1,400 tons of capacity.



Handling Solutions for Difficult Materials

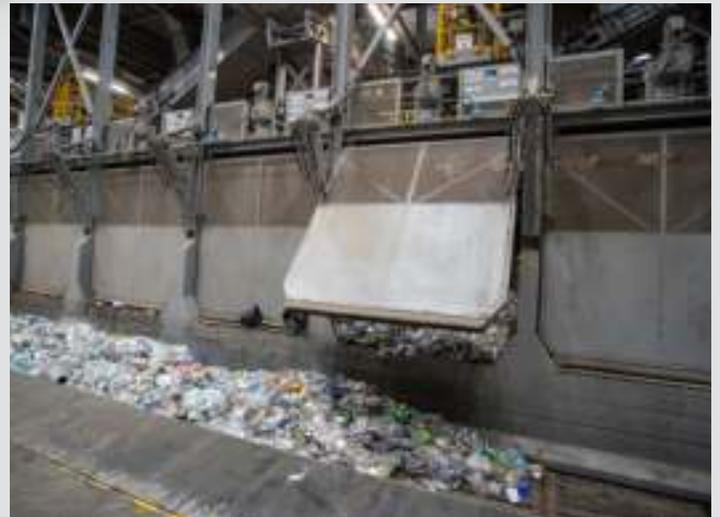
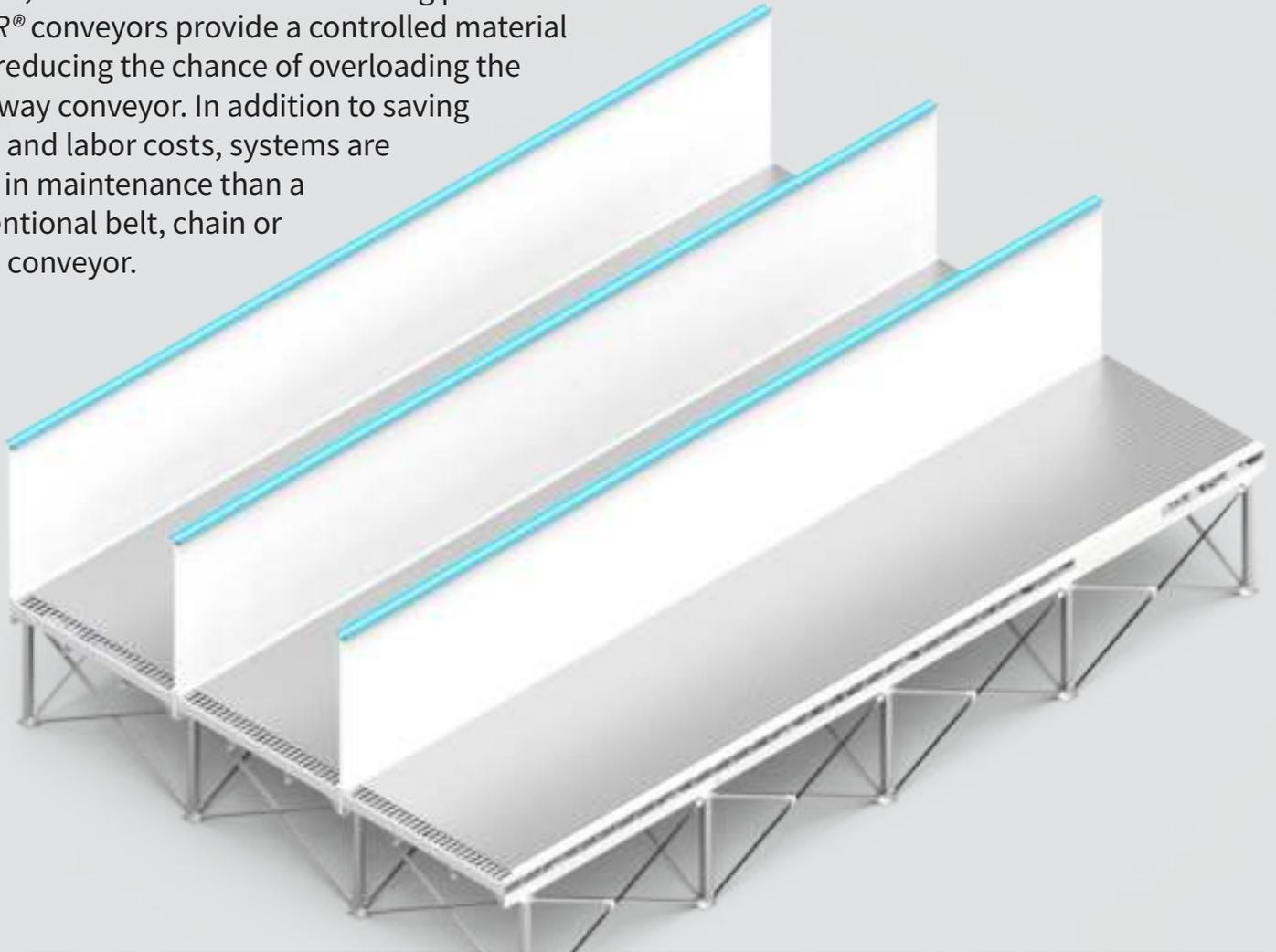
KEITH® storage bins are engineered to nearly any storage capacity, depending upon process needs. The *WALKING FLOOR*® conveying system consistently delivers material to the discharge area, reducing material clogs. Bins serve as storage or buffer bins, with the length, width and height designed to your specifications. Both high-volume and smaller bins are pre-fabricated for onsite assembly. As with all KEITH® *WALKING FLOOR*® storage bins, systems are custom engineered based on facility needs, throughput and type of material handled. First-in, first-out material rotation helps ensure product integrity.



Multi-Bin & Pit Mounted Systems

Multi-Bins

Located side-by-side, *WALKING FLOOR*® bins provide versatile storage space for recycling, wood products manufacturing, agriculture and other industries. Bins store material until it is needed, then automate the unloading process. *WALKING FLOOR*® conveyors provide a controlled material flow, reducing the chance of overloading the takeaway conveyor. In addition to saving space and labor costs, systems are lower in maintenance than a conventional belt, chain or screw conveyor.



Handling Solutions for Difficult Materials

Pit Mounted Systems

Pit mounted systems are commonly used for trailer receiving or loader charging. The floor is designed to withstand the impact of top loading. Bins can feature multiple floors for storage flexibility. Walls and roofing can be added for dust containment. A trailer outfitted with a *WALKING FLOOR*® unloader can streamline the process by automatically offloading material directly onto the system.

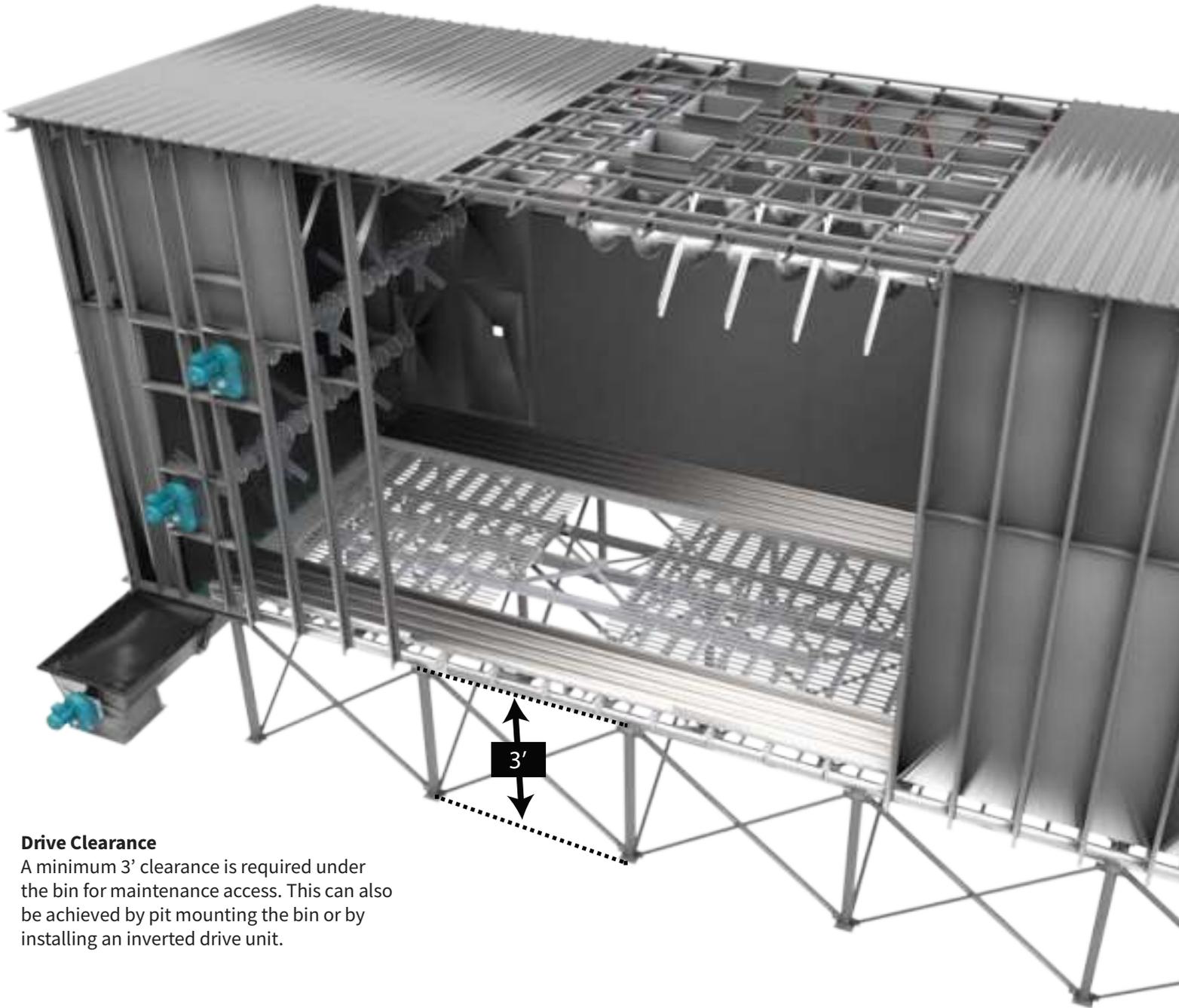


Bin Configuration

Bins can feature single, double or multiple floors for flexible storage options.



Components & Accessories



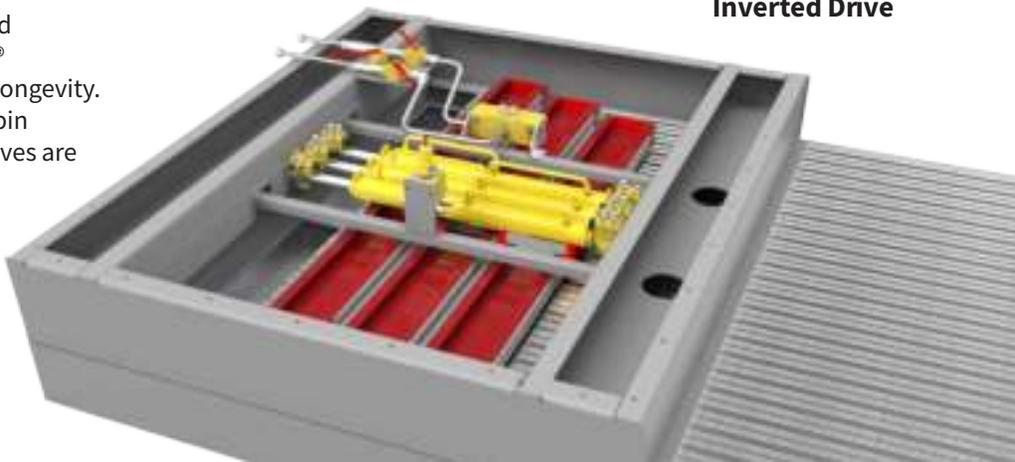
Drive Clearance

A minimum 3' clearance is required under the bin for maintenance access. This can also be achieved by pit mounting the bin or by installing an inverted drive unit.

Drive Unit

The hydraulic drive units that power Storage and Conveying Bin systems feature patented KEITH® technology designed for low maintenance and longevity. Drive configurations vary, depending upon the bin specifications and volume capacity. Multiple drives are frequently used for large bin systems.

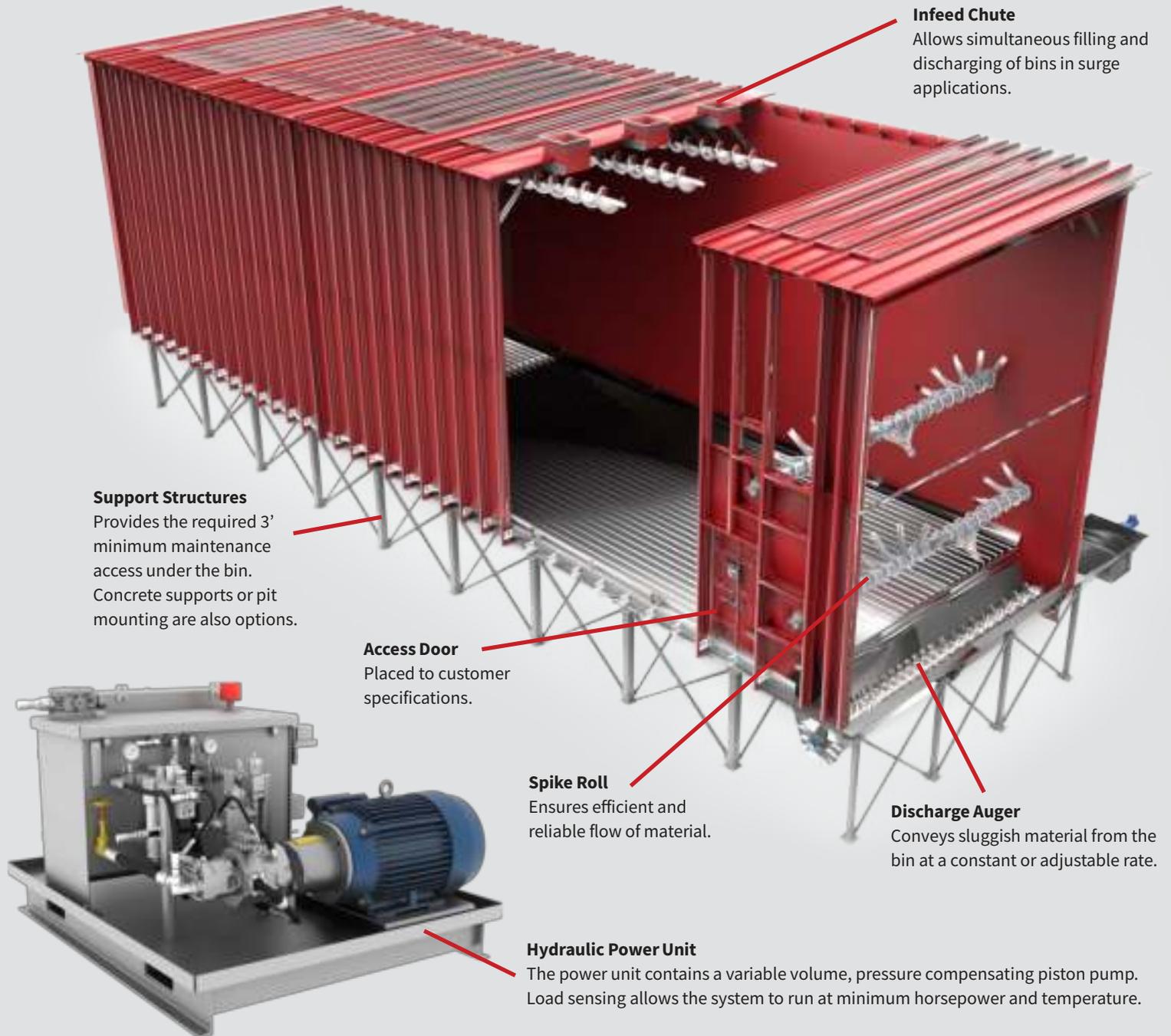
Inverted Drive



Handling Solutions for Difficult Materials

Accessories

Easily integrate various accessories for safety measures and handling difficult materials.



SLAT TYPE Most common slat profiles are shown. Additional slats available.

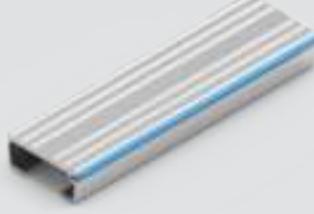
2401



2401 Steel Overlay



2190



Steel V-Floor®





THE KEITH ADVANTAGE

INDUSTRY EXPERTS

KEITH Manufacturing Co. was launched in the early 1970s when Keith Foster set out to make the most reliable, durable, and effective unloading system. Since then, the company has sold more than 90,000 units and holds over 270 patents.

QUALITY MADE

KEITH manufactures most components at its headquarters in Madras, Oregon for superior quality control. Systems are designed, manufactured and assembled by the KEITH team and our trusted partners.

CUSTOMER FOCUSED

KEITH provides ongoing customer service with after-market parts and support. Team members are readily available to answer questions from end users, OEMs, and dealers.

TECHNICAL SUPPORT

KEITH provides technical support, including installation and preventive maintenance services for our customers in the field. Our trained service technicians can conduct scheduled maintenance, ensuring that your WALKING FLOOR® system is operating at peak performance.

Inspired by customers. Powered by innovation.

Our best ideas come from our customers. For more than 70 years, KEITH has listened to the needs of our customers to create material handling products that make work more efficient and profitable. We're still listening today and designing better solutions for tomorrow.



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