



A KEITH® Cotton Module Feeding System™ withstands the impact of unloading cotton modules directly onto the system.

KEITH and Cotton



In 1950, Keith Foster, owner of KEITH Mfg. Co., began producing innovative unloading equipment for agricultural applications. The creation of the KEITH® Cotton Module Feeding System™ introduced Foster's patented *WALKING FLOOR*® technology to the ginning process. KEITH systems provide a safe, efficient and low-maintenance alternative to traditional methods of module feeding.

Commitment to Excellence

The components for KEITH *WALKING FLOOR* systems are custom manufactured using the latest technology at our Madras, Oregon plant. To maintain quality assurances, each unit is assembled and tested prior to shipping. After installation, KEITH's customers can depend on ongoing technical support and customer service.



Innovation and Dedication

For the past 50 years, KEITH has been the leading innovator in conveying technology. With four foreign offices, over 250 worldwide patents and more than 23,000 units operating around the globe, KEITH remains committed to producing the safest and most efficient material handling equipment available.



WALKING FLOOR systems provide ginners a safe and efficient method of metering cotton modules through the feeder head.



Quality Craftsmanship

Designed for durability and dependability, *KEITH WALKING FLOOR* conveyors have no belts, chains, rollers or gears to break. Systems are compatible with any feeder head and are easy to install, making retrofitting any gin an easy process.



Above ground and at a slope.



Enclosed by curb and hand rail.



Attached to an existing pad.



Enclosed by sho

Cotton Module Feeding System™

Installation

Installation is a simple, clean process and can be suited to your individual specifications. Site preparation is minimal, with only a 3-foot deep pit needed to accommodate the hydraulic drive unit. Other systems routinely require deep pits for the installation process.

The KEITH Cotton Module Feeding System™ ships in large, preassembled sections. A 100 ft. long system consists of two 50 ft. modular sections and a hydraulic power unit. In contrast, many roller bed and traveling head systems arrive as a multitude of unassembled parts and complicated electronic packages.

Hydraulic Power Unit

- Marked terminals for wiring between termination points for easy hookup.
- Flashing light warns of equipment start up.
- Variable volume pressure compensated load sensing pump.
- Alarm bell sounds 15 seconds prior to devices engaging.

Control Panel

- Includes two remote enclosures, one at the feeder head and the other for the ginner to control.
- Feeder head remote includes E-STOP switch, momentary jog forward and jog reverse, feeder head stop/start and auger stop/start.
- System speed is variable and can feed 6 to 97 bales/hr based on 13 bales to the module.



FloorSlats

- Aluminum or steel floor slats for maximum impact and wear resistance.
- Floor slats encapsulate the bearings, eliminating dirt intrusion.

Seals

- Specially engineered seals reduce debris build up between the slats and help keep dirt from sifting under the floor.
- Durable material prolongs life of seal.



Part walls and rails.



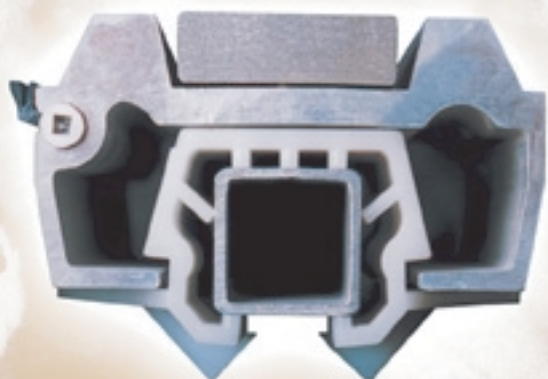
Curb poured around a floor system.



Flush mount with concrete.



Floor sections ship preassembled.



Bearings

- Bearing wings support the center and legs of the floor slat, equally distributing the load.
- Increase the strength of the floor.
- Made of long-lasting, low friction polyethylene.
- Requires no lubrication.
- Securely anchors the flooring.
- Typical gin life expectancy for bearings is 10 years.

Hydraulic Drive Unit

- The hydraulic drive unit, which typically consists of three hydraulic cylinders arranged in a drive frame, is at the core of the KEITH Cotton Module Feeding System.
- Continuous models feature four or six cylinders.
- Cylinders are machined and assembled using the highest quality components.
- KEITH indexes the barrel of the cylinder, not the rod, creating a superior cylinder with a lesser bending moment.
- Cylinders are ball mounted, allowing for motion stress to be self relieved.
- Each cylinder contains two pistons and two rods delivering double the hydraulic efficiency of standard cylinders.



KEITH ADVANTAGES

- + Efficient system with few moving parts.
- + Safe to walk on while the system is operating.
- + Feeds modules and repacks loose or broken bales.
- + Provides a continuous feed, increasing gin output.
- + Trucks drive directly onto the system to unload.
- + System ships in large, preassembled sections.
- + Addition of modules does not interrupt flow.

OTHER SYSTEMS

- Numerous moving parts subjected to sand and dirt.
- Dangerous pinch points between retriever and bed.
- Loose cotton slips through roller bed systems.
- Closing door on traveling head reduces feed.
- Roller beds cannot be driven on or walked on.
- Complicated electronics and unassembled parts.
- Shut down traveling head to recharge with modules.



A traveling head becomes stationary.

Continuous feed conveyor.

Keep the door open.

Retrofit Other Systems

KEITH Cotton Module Feeding Systems™ easily convert a traveling head system to a stationary feeder head. With the continuous feed of a *WALKING FLOOR* conveyor, ginners no longer have to stop the ginning process to reload a traveling head.



KEITH systems provide a simple, efficient design, requiring fewer moving parts. This efficiency is seen in reduced maintenance costs and less down time. Retrofitting a gin with a KEITH system proves to be a clean and quick installation process. Save time and money by installing a KEITH Cotton Module Feeding System™ directly in front of your cumbersome traveling feeder head.

A *WALKING FLOOR* system easily replaces complicated roller bed mechanisms. *WALKING FLOOR* conveyors are safe to walk on and eliminate the dangerous pinch points associated with roller bed systems. KEITH systems also eliminate the fire hazard created by cotton falling through a roller bed system.



Variable speed programming.



Uniform feed of cotton module.



Precise, durable construction.

Fiber Blending System™

The KEITH Fiber Blending System™ integrates *WALKING FLOOR* technology with a double cotton module feeder head. This configuration enables ginners to simultaneously feed cotton of differing moisture content or quality through each end of the double feeder head.



A *WALKING FLOOR* conveyor, situated in front of each dispersal head, steadily meters the module forward. As the modules simultaneously travel to the feeder heads, a series of doffing rolls located inside break up the fiber. The cotton is dispersed and the fiber mixture is then available for further processing.

Varying grades of material can be fed into the Fiber Blending System, creating a desired blend.

Blending fibers provides ginners greater flexibility in using grades and conditions of seed cotton, maximizing product value and increasing seasonal profit.

The Fiber Blending System is KEITH's latest material handling solution, designed specifically for the cotton ginning industry. This exciting innovation also has applications in other industries.





KEITH Mfg. Co. is a proud member of
The Cotton Foundation
California Cotton Ginners and Growers Associations
New Mexico Cotton Ginners' Association
Southern Cotton Ginners Association
Southern Cotton Growers, Inc.
Southeastern Cotton Ginners Association, Inc.
Texas Cotton Ginners' Association

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