



Industrial Mixers
VERTICAL / REEL / 4-AUGER



INDUSTRIAL MIXING HAS BEEN REDEFINED

AS THE WORLDWIDE LEADER IN MIXING TECHNOLOGY, WE OFFER A WIDE VARIETY OF KUHN KNIGHT MIXERS DESIGNED AND BUILT TO MEET ANY INDUSTRIAL MIXING NEED.



FOOD WASTE



BIOSOLIDS



WOODCHIPS



PLASTIC PELLETS

The RC 300 Series and RC 3120 Reel Commercial mixers gently and efficiently mix a large variety of materials, combining high-moisture byproducts. The VTC Series Vertical Maxx® twin-auger and VXL 100 Series triple-auger commercial mixers are designed to withstand continuous operation while mixing and breaking down even the toughest materials. Botec® 4-auger mixers have low power requirements for a wide variety of industrial mixing needs. With a variety of sizes that are available in truck, trailer and stationary models, there is a KUHN Knight mixer to meet the needs of your industrial application.

Models	Mixing Capacity (w/ Extensions)	Available Configurations	Available Door Configurations
RC 350	500 cu. ft.	Trailer, Truck or Stationary	Side Only
RC 360	600 cu. ft.	Trailer, Truck or Stationary	Side Only
RC 370	700 cu. ft.	Trailer, Truck or Stationary	Side Only
RC 395	950 cu. ft.	Trailer, Truck or Stationary	Side Only
RC 3120	1,250 cu. ft.	Trailer or Truck	Side Only
VT 280	800 (880) cu. ft.	Trailer Only	Front, Side & Rear
VT 2100	1,000 (1,100) cu. ft.	Trailer Only	Front, Side & Rear
VTC 280	800 (880) cu. ft.	Trailer, Truck or Stationary	Front, Side & Rear
VTC 2100	1,000 (1,100) cu. ft.	Trailer, Truck or Stationary	Front, Side & Rear
VTC 2110	1,100 (1,210) cu. ft.	Truck Only	Front, Side & Rear
VTC 2120	1,200 (1,320) cu. ft.	Trailer, Truck or Stationary	Front, Side & Rear
VXL 1140	1,400 (1,540) cu. ft.	Trailer or Stationary	Front, Side & Rear
VXL 1165	1,650 (1,815) cu. ft.	Trailer or Stationary	Front, Side & Rear
VXL 1180	1,800 (1,960) cu. ft.	Trailer or Stationary	Front, Side & Rear
BTC 155	550 (630) cu. ft.	Trailer or Truck	Side Only
BTC 163	630 (720) cu. ft.	Trailer or Truck	Side Only
BTC 172	720 (810) cu. ft.	Trailer or Truck	Side Only
BTC 190	900 (1,000) cu. ft.	Trailer or Truck	Side Only

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HELIX™ DESIGN

The Helix Reel has a robust build and has been thoroughly tested to withstand the most challenging industrial conditions. The helical design of the reel crossbars evens the pressure across the length of the reel for less compaction of compostable material and smoother, more consistent operation.



OPEN-CENTER REEL

The open-center design eliminates obstructions in the reel, providing superior material movement and unparalleled mixing action. The benefits are unmistakable – with faster, more consistent mixing, improved load leveling, optimized mixer space utilization and fewer dead spots for a superior mix of industrial materials.



SUPERIOR MIXING OF WET MATERIALS

A mix bar runs diagonally across the center of the reel which helps ensure consistent material movement throughout the entire mixing chamber. The reel crossbars keep material moving efficiently around the outside of the chamber. The secondary mixing action from the mix bar provides a fast and thorough mix even in wet, heavy industrial mixtures and biosolids.

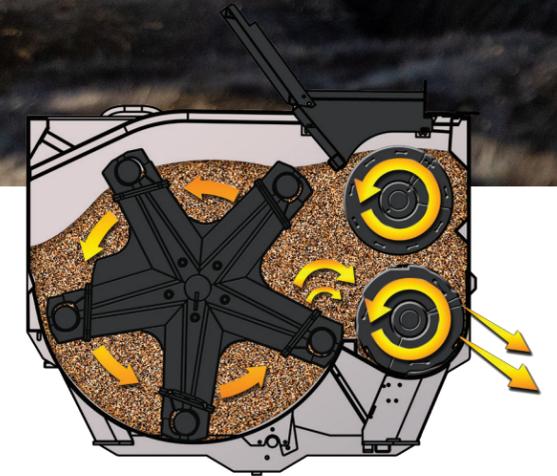


RC SERIES REEL MIXERS

The RC 300 Series and RC 3120 Reel Commercial mixers provide superior durability and performance, with advanced options that separate them from the competition. The open-concept Helix Reel offers faster, more consistent mixing and improved load leveling in any industrial environment. The Helix Reel design optimizes the mixing of wet materials such as biosolids, but has proven to provide quality performance in any composting or industrial application. The heavy-duty drive option offers extended life, in even the most extreme use cycles, and provides the ability to incorporate even the heaviest materials. These enhancements, combined with the versatility and low horsepower requirement that are the hallmark of the reel and auger design, put these RC models at the head of their class. With many different options available, and capacities from 500 to 1,200 cubic feet, the Reel Commercial mixers can be tailored to fit any industrial situation.

Reel Commercial Mixers

The large reel turns slowly, lifting material up and into the two blending augers. The lower auger moves material forward and serves as the discharge auger while the upper auger moves material rearward for load leveling.



SPECIALIZED BIOSOLIDS AUGERS

The optional biosolids augers available for RC 360 and 395 models feature ¾" flights which at convergence points becomes a robust 1" thick for maximum strength. The heavy lower auger tube is also coated with stainless steel at the convergence point. A specialized flighting design maximizes durability. The upper auger features anti-wear flighting and a heavier wall tube.



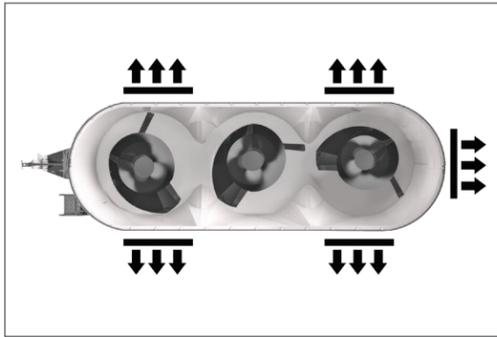
BIOSOLIDS STAINLESS STEEL LINERS

Optional biosolids stainless steel liners completely cover the inside of the mixer shell for extra long life.



RUGGED AND DURABLE

The optional Heavy-Duty Drive provides heavier chains throughout and a larger diameter countershaft and bearings for added strength and extended life in the toughest mixing conditions and heaviest use cycles.



MULTIPLE DISCHARGE LOCATIONS

Multiple different door configuration options offer flexibility to fit a variety of industrial situations. The large discharge openings provide fast, even unloading from the front, side and rear door locations for maximum efficiency.



KNIFE OPTIONS

Large 15" or 20" replaceable knives provide outstanding particle breakdown for food waste or other industrial materials.



EFFICIENT DISCHARGE KICKER

The swept back, bolt-on auger kicker is formed rearward to efficiently charge the door with material the entire way on each pass for even discharge and decreased unloading time.



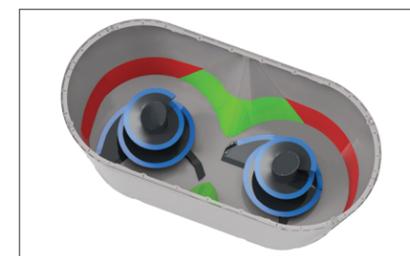
VT, VTC & VXL SERIES VERTICAL MIXERS

The VT and VTC Series Vertical Maxx® vertical twin-auger and VXL triple-auger mixers are the latest advancement in mixing technology with many innovative features for industrial applications. With sizes from 320 to 1,960 cubic feet, there is a vertical mixer to fit any application. The efficient mixing chamber and advanced auger technology provide very fast mixing and processing with unparalleled cleanout compared to competitive models. The VTC and VXL commercial mixers come standard with heavy-duty equipment to withstand the most extreme industrial applications and intense load intervals. Numerous discharge options and the versatility of stationary, trailer or truck models make these mixers the choice for industrial applications.



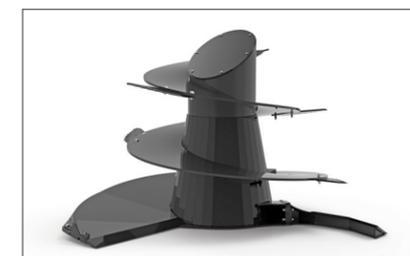
Vertical Auger Mixers

The open mixing chamber of a vertical mixer not only allows the vertical mixer augers to mix a wide variety of agricultural and industrial materials, but also allows for the mixer to act as a mixer/processor. The vertical mixer augers not only move material end-to-end and vertically with boiling mixing action, but also can be used with knives to break apart and process down materials that are added to the mixer.



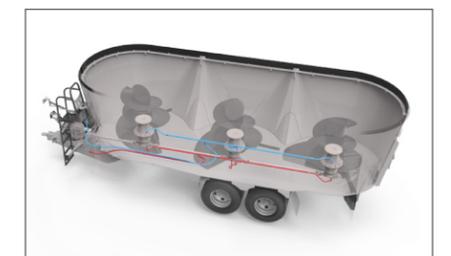
EFFICIENT MIXING CHAMBER

Near vertical sides and steep baffles with smooth curves, along with redesigned augers, ensure a fast, complete mix batch after batch. A stainless liner is available on VT models and standard on VTC and VXL models to strengthen the heaviest wear areas and ensure a long life.



ADVANCED AUGER DESIGN

Redesigned augers provide superior material movement for faster, more complete mixing and processing. The cone-shaped auger design and the angled top cover of Kuhn Knight vertical mixer augers promote consistent material flow and improve cleanoff. Enhanced material flow also results in a lower horsepower requirement for more efficient, economical operation.



RELIABLE MIXER DRIVES

KUHN Knight vertical mixers offer reliable mixer drive solutions for all applications. On twin-auger trailers, a patented split drive system reduces heat creation in planetaries and provides individual auger protection. VTC truck and stationary models offer maintenance-free straight drive solutions that offer system protection through the hydrostatic (truck) or electric (stationary) drives. Triple-auger trailers provide a direct drive solution that is protected in the front and offers oil cooling for maximum life and performance.



PLANETARY DRIVE

The dependable planetary drive reduction eliminates high speed chains and sprockets in the oil bath to provide smooth operation and low maintenance.



REAR OIL BATH

The reliable heavy-duty roller chain drive runs in oil and has spring tensioned poly idlers for long life. A single latch access door with pneumatic cylinders provides simple and convenient access to chains, sprockets and tighteners.



AUGER BEARINGS

The externally mounted nylon bearings tolerate overloading, resist contamination better than traditional roller bearings and are more cost effective to replace.

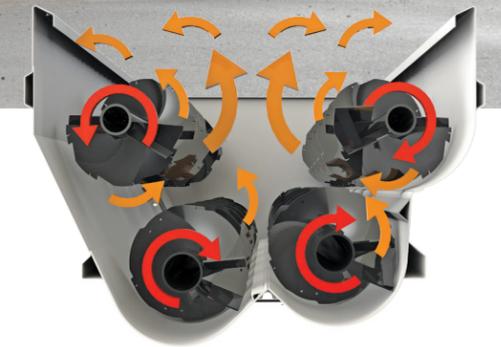


BTC 100 SERIES 4-AUGER MIXERS

The commercial quality Botec® 4-auger design features a raised, lower-right auger and an upper auger trough. This raised auger and box design combination provides a thorough, yet gentle blending of ingredients. This unique design provides a consistent, more thorough mix and eliminates dead spots common to many other auger mixers. The low horsepower requirement means efficient operation and lower fuel costs. These mixers also provide fast mixing and quick, complete cleanout, saving time and money. With capacities from 550 to 1,000 cubic feet, there is a machine to meet your needs.

Botec 4-Auger Mixers

The two lower augers move material forward and also serve as the discharge. As feed is pushed up at the flighting convergence point, the two upper augers move material toward the rear of the machine for proper mixing and load leveling.



DISCHARGE OPTIONS

A simple hydraulically controlled slide tray is suited for unloading at ground level with minimal moving parts. The hydraulically driven 4-auger discharge has an adjustable height and is ideal for unloading onto raised conveyors or to windrow compost.



KNIFE OPTIONS

Augers are offered with optional scalloped knives in order to break down tough industrial materials such as food waste without affecting the outstanding mix quality of the 4-auger mixer.



UPPER AUGER TROUGH

The upper auger trough provides fast front to back mixing action, superior load leveling and prevents overloading of the lower right auger while strengthening the mixer, eliminating the need for external supports.

INNOVATIVE PRODUCT FEATURES

EXTENDED LIFE OPTIONS

For high-duty cycles and mixing of the most abrasive industrial materials, multiple extended life options are available. These include stainless steel liners for mixer walls, ends, baffles and auger troughs, along with thicker flighting and hardened augers with some auger options to ensure durable service and long life even under the heaviest use cycles.



ELECTRIC DRIVES/CONTROLS FOR STATIONARY MIXERS

We offer a full line of high-quality electric motors and controls for our stationary mixers. Coming in a variety of sizes and options, there is an electric drive setup to meet the needs of even the most demanding industrial applications.



TRUCK MODEL FACTORY MOUNTING AND TRUCK SOURCING

We offer factory installation of truck model mixers to ensure proper function and promote longer service life. Our installation team can mount a mixer on a truck that you supply or we can source a truck that will meet our detailed specifications.

A MIX THAT'S RIGHT FOR YOU



TRUCK MOUNTED MODELS

Many operators choose truck mounted KUH N Knight mixers for efficient operation. They are the logical choice for larger operations and users who want faster, more convenient travel between locations. Other benefits of truck mounted mixers include operator comfort and increased maneuverability, especially when backing into tight spaces.



STATIONARY MODELS

Some industrial locations are ideally set up for stationary units. If operation takes place around a centralized location or a biosolids press is used, the site may lend itself well to a stationary KUH N Knight mixer. This allows for easy operation and push-button startup when used with our optional electric drives.



TRAILED MODELS

For industrial users who already have access to a power unit, a trailer model mixer can be the perfect match. With heavy-duty undercarriages, trailer models provide dependable service. Easy-to-use jacks, a well-designed hitch and proper PTO placement make trailer units easy to disconnect, leaving your power unit accessible for other applications.

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