

Mixers

INDUSTRIAL MIXERS

VERTICAL TWIN-AUGER / REEL / 4-AUGER



www.KuhnNorthAmerica.com



Invest in Quality®

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. The RC 200 Series Reel Commercial mixers gently and efficiently mix a large variety of materials, combining high-moisture byproducts. The VTC Series Vertical Twin-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.



FOOD WASTE



BIOSOLIDS



WOODCHIPS



PLASTIC PELLETS



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.

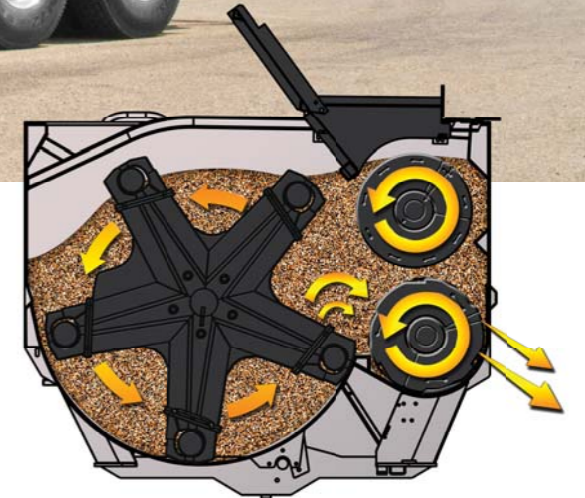


RC SERIES REEL MIXERS

The RC 200 Series Reel Commercial mixers provide superior durability and performance, with new advanced options that separate them from the competition. The all-new, 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 new RC models at the head of their class. With many different options available, and capacities from 500 to 950 cubic feet, the RC 200 Series can be tailored to fit any industrial situation.

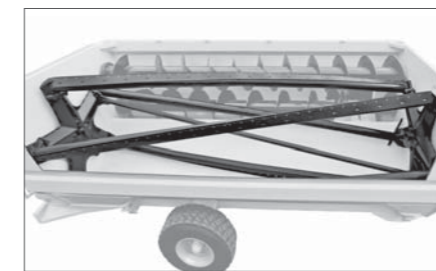
Reel Commercial Mixers

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 260 and 295 models feature ¾" flights which at convergence points becomes a robust 1" thick for maximum strength. The auger tubes are also coated with stainless steel at the convergence points and have a specialized flighting design to reduce compaction, increase efficiency and maximize durability.



IMPROVED LOAD LEVELING

With all potential obstacles removed from the center of the reel, material is free to flow unobstructed from one end of the mixing chamber to the other, greatly improving the end-to-end mixing action. Even leveling results in consistent use of the entire mixer, maximizing efficiency.



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

Eight 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 curved, 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.

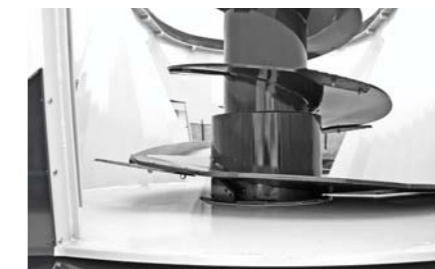
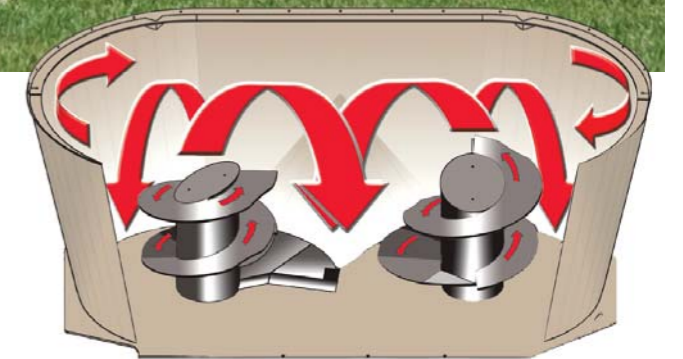


**VT & VTC SERIES
VERTICAL TWIN-AUGER MIXERS**

The VT and VTC Series Vertical Twin-Auger and Vertical Twin-Auger Commercial mixers are the latest advancement in mixing technology with many innovative features for industrial applications. With sizes from 320 to 1,200 cubic feet, there is a vertical twin-auger 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 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 Twin-Auger Mixers

The two augers lift material through the flighting which produces a boiling action and also moves material end-to-end to quickly mix all industrial materials.



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 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 of the VT 132 – VT 168 and the angled top cover of the VT 180 – VTC 1120 augers promote consistent material flow and improve cleanoff. Enhanced material flow also results in a lower horsepower requirement for more efficient, economical operation.

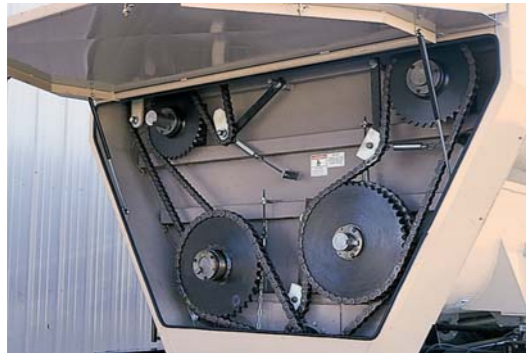
PATENTED SPLIT DRIVE

The patented drive system on the VT 156 – VTC 1120 models consists of a 2-speed splitter gearbox, two planetary gearboxes and two torque-disconnect PTOs. The system provides reliable performance and long service life with a simple and quiet design.



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.



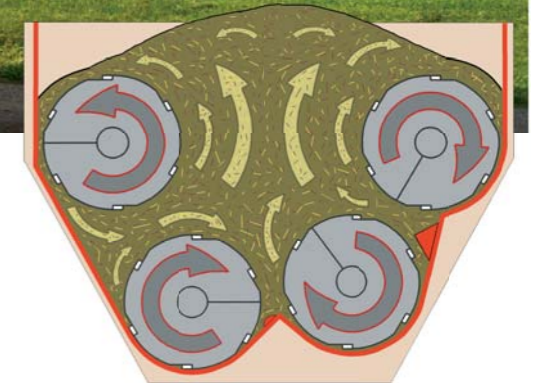
AUGER BEARINGS

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



4100 & 4000 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 360 to 900 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 3-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 fighting 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 Kuhn 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 Kuhn 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.



COMPLEMENTARY PRODUCTS

MORE PRODUCTS TO MEET YOUR NEEDS

With over 565 models of equipment, we have the most complete implement line in the industry. Whether you have a small or large operation, we have a broad range of models and options to help fit your diverse needs.



1. Side-Discharge Spreaders – 2. Apron Box Spreaders – 3. Fertilizer Spreaders – 4. Roadside Mowers – 5. Push Box Spreaders

For more information about your nearest Kuhn dealer and other Kuhn products, visit our website at

www.KuhnNorthAmerica.com




Visit our YouTube channel to watch our latest product videos.

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Always read and understand the Operator's Manual and all Safety Decals before using the equipment.

We reserve the right to change any equipment specifications, design, or materials without notice. These mixers are designed for agricultural use only with materials estimated up to 30 lbs. per cubic foot. Contact factory for non-agricultural use or heavier materials. US and foreign patents filed.

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