Botec® and ProFeed® Delivery Boxes | 550 – 1,450 cu. ft.

BTC 100 / PF 100





WHY A KUHN KNIGHT DELIVERY BOX?

THE AUGER-STYLE DELIVERY BOX DESIGN IS THE SIMPLEST DELIVERY BOX DESIGN ON THE MARKET. NO FLOOR CHAINS ARE NEEDED TO UNLOAD FEED WITH AN AUGER DELIVERY BOX. UNLIKE OTHER DELIVERY BOX DESIGNS, FEED DOESN'T HAVE TO BE MOVED IN TWO DIRECTIONS, FRONT AND THEN SIDEWAYS. AUGER DELIVERY BOXES EFFECTIVELY PLACE A VARIETY OF RATIONS WITH TWO SIMPLE HORIZONTAL AUGERS. THE SIMPLICITY OF THIS DELIVERY BOX DESIGN RESULTS IN LOW MAINTENANCE AND PROVIDES A LONG LASTING SOLUTION.







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COMPLETE FEEDING CENTER PRODUCT OFFERING
Kuhn North America boasts an outstanding lineup of commercial TMR mixers and delivery boxes for centralized TMR mixing and feeding. Commercial vertical and commercial reel mixers are available to meet the stationary mixing needs of customers looking to mix a wide variety of rations and mixes. Auger-style delivery boxes, in a wide range of capacities, can be used to quickly and accurately deliver rations ranging from higher roughage rations to wet, heavy finishing rations.

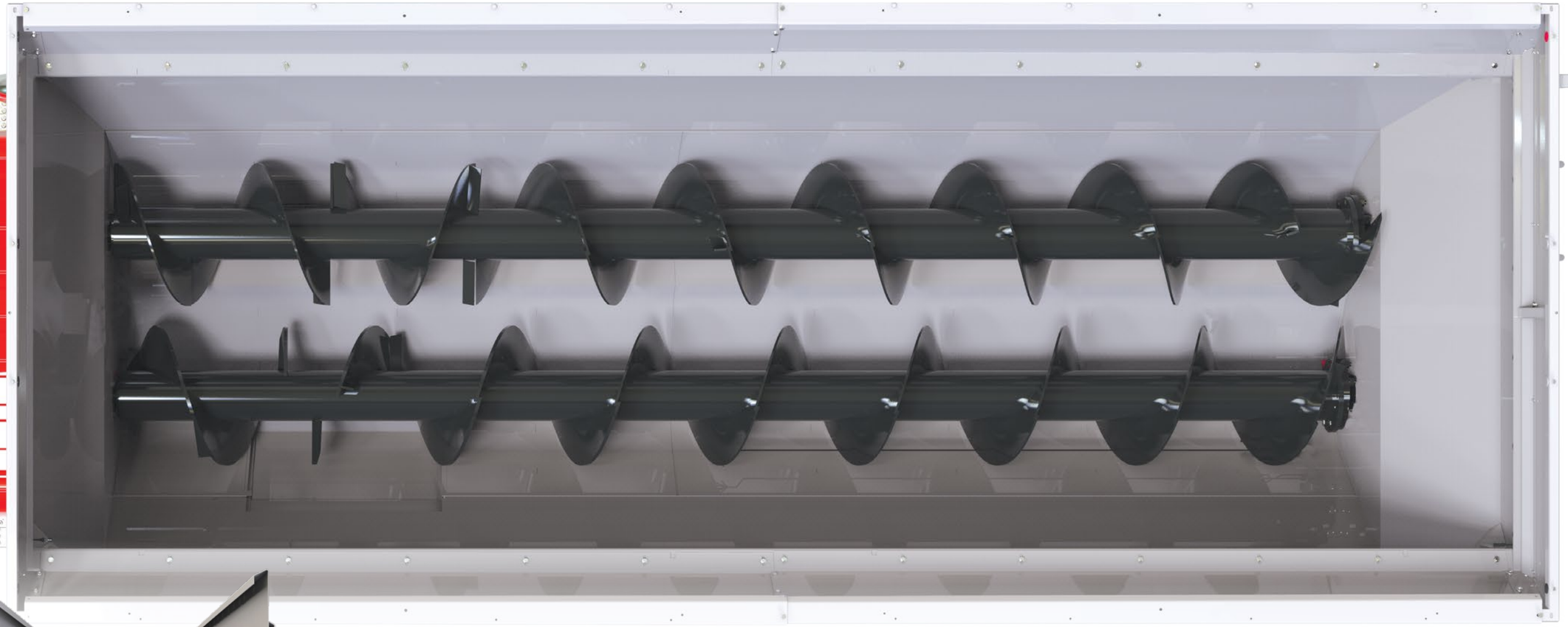
MACHINE LONGEVITY
Central TMR mixing centers utilizing single purpose machines are subject to less wear and tear than machines serving many purposes. TMR mixers on a fixed undercarriage are not exposed to the stresses of travel over farm terrain and the associated wear. Feed delivery boxes that do not need to provide feed mixing action do not experience component wear related to the mixing action of a TMR mixer.

Models	Capacity (w/ Extensions)	Maximum Net Load	Available Configurations
BTC 155	550 (630) cu. ft.	18,000 lbs	Trailer or Truck
BTC 163	630 (720) cu. ft.	20,700 lbs	Trailer or Truck
BTC 172	720 (810) cu. ft.	23,700 lbs	Trailer or Truck
BTC 190	900 (1,000) cu. ft.	29,700 lbs	Trailer or Truck
PF 1130	1,000 (1,100 & 1,300) cu. ft.	50,000 lbs	Truck Only
PF 1145	1,100 (1,200 & 1,450) cu. ft.	50,000 lbs	Truck Only

KUHN KNIGHT AUGER DELIVERY BOXES

MORE BOX, MORE FEED, FEWER PARTS, FEWER WORRIES







RAISED, TWIN-AUGER DESIGN

The BTC and PF 100 Series delivery boxes use a simple, effective twin-auger design for quick, consistent discharge. Similar to the famous twin-auger design of the KUHN Knight ProTwin® Slinger® manure spreaders, the raised right auger of the BTC and PF delivery boxes eliminates material bridging and works to consistently charge the lower auger on the discharge side. Proven high performance in a variety of manure materials remains true when unloading a variety of feed ingredients and rations.

EASE OF OPERATION

The twin-auger delivery box provides outstanding ease of operation. From the beginning of the unload cycle to the end, a consistent amount of feed is provided to the discharge, making it easier to provide even feedout in the bunk.

LONGER WEAR LIFE & LESS MAINTENANCE

With far fewer wear components than other delivery box designs, auger delivery boxes provide superior component lifetime and require minimal daily maintenance. No chains to replace, less daily service points, and the reduction of a cross conveyor are all examples of how the auger delivery box highlights simplicity and longevity over other designs.

COMPLETE CLEANOUT AND NO CARRYAROUND

Close auger-to-floor tolerances allow for excellent cleanout of the delivery box. Another advantage of the auger delivery box design is the elimination of feed carryaround. Unlike other designs that utilize chain conveyors to move feed, augers do not carry feed around and deposit it in an undesired location.

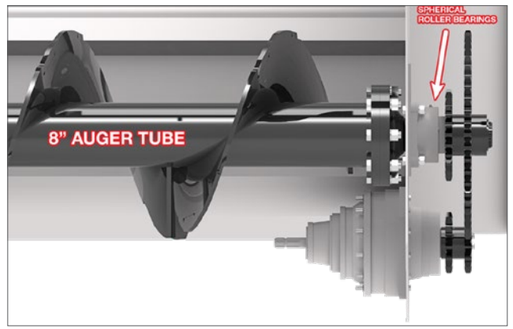


BOTEC® BTC 100 SERIES

SIMPLE & VERSATILE

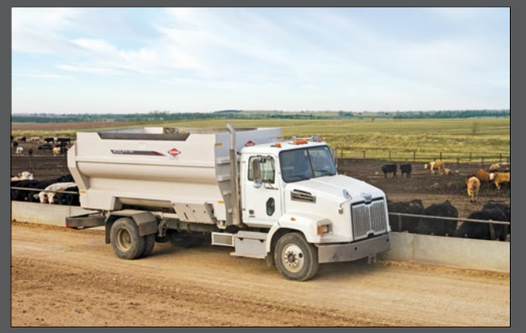
KUHN Knight BTC 100 Series delivery boxes are designed for dairy and feedlot operations looking for a fast and accurate feed delivery solution from a central mixing point. Available as a trailed or truck mount configuration, four models have capacities ranging from 550 ft^3 up to 1,000 ft^3 with extensions.

The BTC delivery boxes offer a wide range of options to fit the needs of a wide variety of producers. Trailed units provide a solution for farms looking to utilize a tractor for multiple operations, while truck mounted units are avilable for farms wanting a dedicated feeding unit, or that need to travel longer distances. Varying discharge options allow farms to feed into differing areas. Need a delivery box at a reduced cost for a low-wear application? The BTC 100 Series delivery boxes can be ordered minus stainless liners, and truck mounts can utilize a mechanical drive. On the flip side, boxes going into high-use applications can be ordered with various stainless liner kits and more sophisticated hydrostatic drives.



DRIVE COMPONENTS

The BTC delivery boxes feature a simple, yet effective drive design for superior performance. Input speed is reduced through a planetary gearbox, eliminating the need for additional high-speed chains and sprockets. Heavy-duty drive roller chains drive the auger sprockets in an enclosed oil bath. Splined auger shafts provide a reliable connection from the sprockets to the augers. Augers use a bolted flange connection to mate with the auger drive shafts.



TRUCK OR TRAILER CONFIGURATION

The BTC 100 Series delivery boxes are available in a trailed or truck mounted configuration to fit your operation's needs.



TRUCK DRIVES

Either mechancial or hydrostatic drive packages are available for the truck mounted BTC delivery boxes. For customers looking for a low cost, simple drive option, the mechanical drive option can be used due to the low horsepower requirements of the BTC delivery boxes. For customers looking for independent control of the delivery box from ground speed, the hydrostatic drive can be used.



AXLE CONFIGURATIONS

Dependent on BTC delivery box size, either single or tandem axle configurations can be used in either trailer or truck models. Single axle trailers and trucks are standard on the BTC 155. Single or tandem axle options are available on the BTC 163 & 172. The BTC 190 requires tandem axles for both trucks and trailers.





PROFEED® PF 100 SERIES

MAXIMIZE FEEDING EFFICIENCY

The new KUHN Knight ProFeed® PF 100 Series delivery boxes are an efficient option for many large and extra-large farms, feedlots and ranches to feed more cattle per load. With a robust and durable design, the ProFeed 100 Series delivery boxes are reliable in every feeding application.

The twin-auger design guarantees a fast, thorough cleanout every time. The choice of standard or grain augers provides you with the ability to tailor your machine to match your feeding application. High-quality drive components and controls provide faster discharge and greater one-pass feeding capabilities. The PF 100 Series includes two models: the PF 1130 & PF 1145, both available with 5.5" and 17.75" extensions, resulting in capacities ranging from 1,000 ft^3 to 1,450 ft^3, each with a 50,000-pound maximum net load rating.



TRUCK CONTROLS
New KUHN truck mount controls provide an operator-friendly experience for delivery box control. On-board machine parameters and diagnostics can be accessed on the machine display in order to quickly identify potential issues and monitor the system. An external fuse box provides easy access to fuses and relays. Auxiliary power capability is available in the new wiring harness, an easy power source for scale indicators.



UPGRADED HYDROSTATIC DRIVE
A variable displacement hydraulic motor reduces unloading times. The motor is capable of making incremental displacement adjustments based on requested feedout speed from the closed-loop software. Through this incremental speed adjustment, the PF delivery boxes can respond to unload speed requests earlier in the unload process, resulting in 50% faster unloading speeds compared to the previous model.



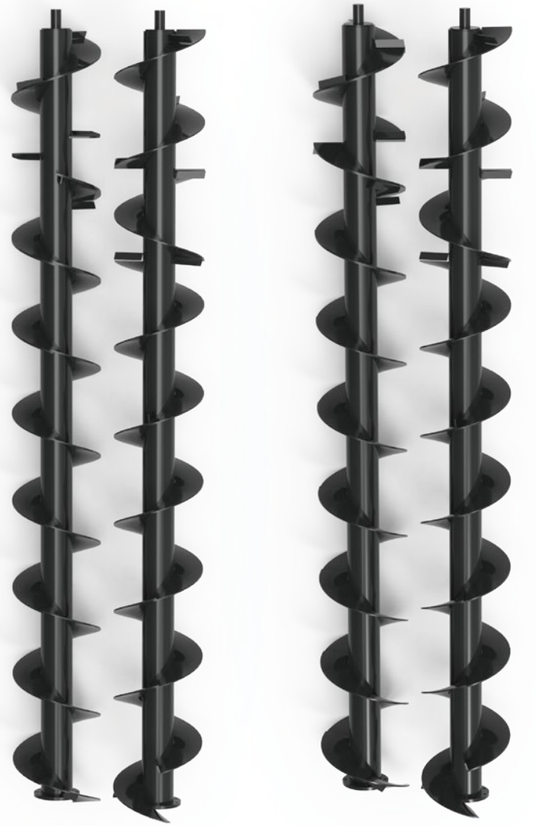
HEAVY-DUTY DRIVE COMPONENTS
The PF delivery boxes offer many proven heavy-duty components. A 40:1 planetary gearbox is used for speed reduction into the rear of the unit. A splined cast plug is used for the driveshaft-to-sprocket connection. Simple, reliable sleeve bearings are used to maintain shaft alignment. A bolted flange connection is used to mate the drive with the augers.

DAIRY OR FEEDLOT OPTIMIZATION

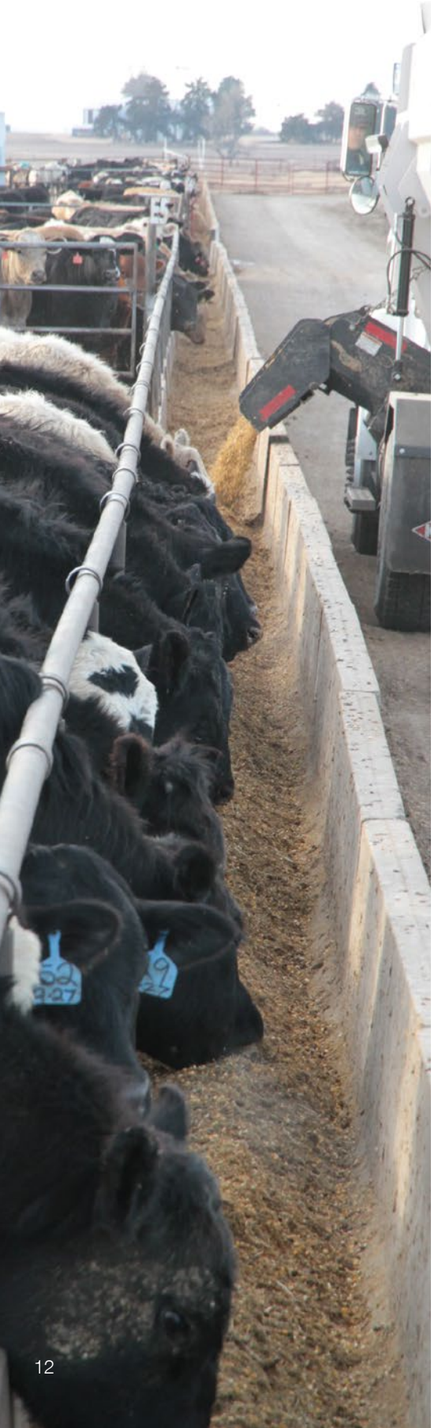
RATION VERSATILITY
Auger feed delivery boxes have been used for many years in beef feedlot applications, feeding the wetter, heavier rations that come from traditional feed mills. With the increasing use of stationary TMR mixers on dairy farms, KUHN has adjusted our auger delivery boxes to accomodate dairies looking to feed drier high roughage rations while still enjoying the benefits of an auger delivery box.

STANDARD AND GRAIN AUGER OPTIONS
The PF 100 Series delivery boxes are available with two auger options; the standard and grain auger configurations. Standard augers are designed with an open convergence area near the discharge door resulting in optimal load leveling and feedout performance in higher roughage, dairy rations. Grain augers feature a closed convergence area near the discharge door, optimized for feeding typical finishing rations.

STANDARD AUGER VS GRAIN AUGER



MULTIPLE DISCHARGE OPTIONS



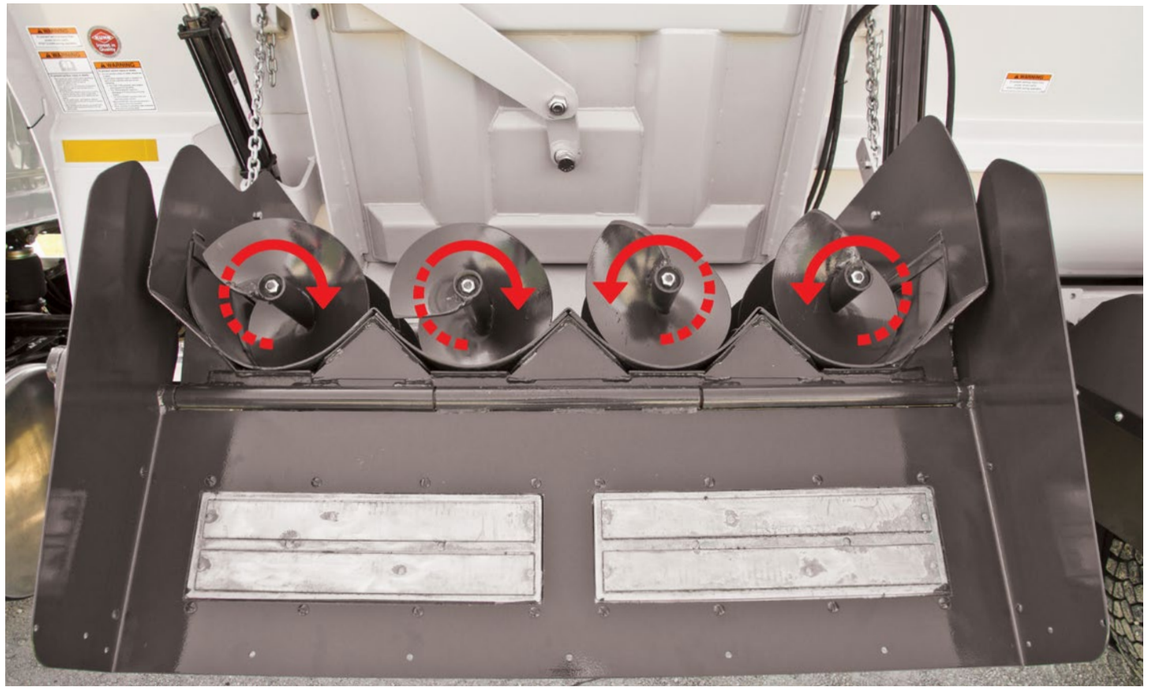


UNMATCHED EVENNESS OF DISCHARGE

Multiple discharge options are available for the BTC delivery boxes. A slide tray option is available for floor/ground feeding. Three incline discharges are optional; a 4-auger discharge, chain and slat conveyor, and belt conveyor. The multiple discharge options, with a variety of lengths available and with or without tipoff, allow producers to choose their preference for their application.

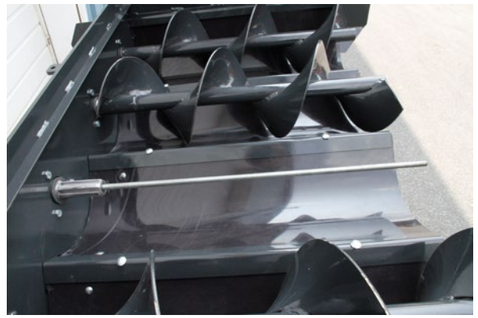
The PF delivery boxes come standard with a 4-auger discharge. The 4-auger discharge provides excellent unloading of a wide variety of feedlot and dairy rations on larger farms and feedlots. There are three lengths (28", 36", 45"), with or without tipoff, available on PF 100 Series delivery boxes.





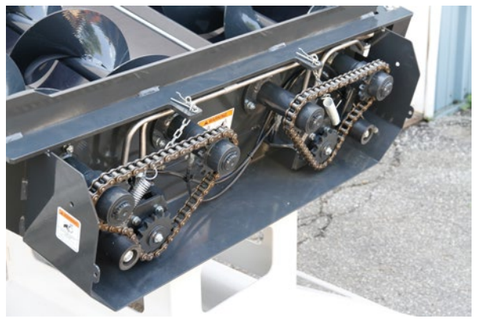
4-AUGER DISCHARGE

Counter-rotating augers bring the feed to the center of the discharge to increase overall capacity and provide a smooth, even discharge for all ration types. *(BTC & PF Models)*



REMOVABLE AUGERS & POLY LINERS

The discharge augers are simple to remove for easy serviceability. Long-lasting, replaceable polyethylene chute liners prevent rust and limit wear.



SIMPLIFIED DRIVE

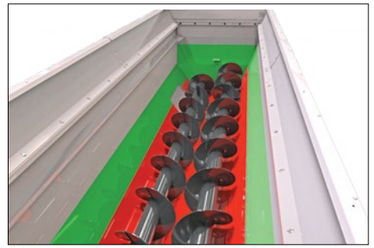
As with the main auger drive, the discharge auger shafts are splined for a more positive power transfer and longer service life. The simplified drive design, featuring only two chains and a remote grease bank, results in easy service and maintenance.

ADDITIONAL OPTIONS



CAPACITY EXTENSIONS

A belt extension added to the top of the BTC delivery boxes increases capacity by about 10%. Two steel extension options, added to the top of PF delivery boxes, increase base capacity by 10% or 30%. *(BTC & PF Models)*



STAINLESS STEEL LINERS

The partial liner covers the most critical wear areas in the mixer and provides added protection and longer life. Additional liners completely cover all of the high-wear areas for unmatched dependability and long service life. *(BTC & PF Models)*



FENDERS

BTC & PF delivery boxes are available with the choice between two fender options: the individual axle fender or the continuous tandem fender pictured above. *(BTC & PF Models)*



SCALE SYSTEMS

Different scale brands, models and options are available for all types of operations to accomodate the integration of various feed management programs. Optional remote indicators are available for placement that will allow easier viewing. *(BTC & PF Models)*



BUNK LIGHTS

Optional bunk lights are available in multiple configurations to provide additional light for late nights and early mornings. *(BTC & PF Models)*



FRONT AND REAR BUMPERS

PF delivery boxes are available with two front bumper options: a straight bumper or an angled bumper. A steel rear bumper comes standard. *(BTC & PF Models)*



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Technical Specifications

BOTEC® BTC 100 SERIES

	BTC 155		BTC 163		BTC 172		BTC 190	
	TRAILER	TRUCK	TRAILER	TRUCK	TRAILER	TRUCK	TRAILER	TRUCK
Capacity	550 ft³ (15.6 m³)		630 ft³ (17.8 m³)		720 ft³ (20.4 m³)		900 ft³ (25.5 m³)	
Capacity - with Extensions	630 ft³ (17.8 m³)		720 ft³ (20.4 m³)		810 ft³ (22.9 m³)		1,000 ft³ (28.3 m³)	
Maximum Net Load	15,600 lbs (7,075 kg)		18,900 lbs (8,575 kg)		21,600 lbs (9,800 kg)		27,000 lbs (12,250 kg)	
Overall Length	267" (678 cm)	215" (546 cm)	291" (739 cm)	239" (607 cm)	291" (739 cm)	239" (607 cm)	295" (749 cm)	242" (615 cm)
Unit Shell Length	192" (488 cm)		216" (549 cm)		216" (549 cm)		216" (549 cm)	
Overall Height	106" (269 cm)	117" (297 cm)	106" (269 cm)	117" (297 cm)	114" (290 cm)	125" (318 cm)	114" (290 cm)	136" (345 cm)
Overall Height - With Extensions	114" (290 cm)	125" (318 cm)	114" (290 cm)	125" (318 cm)	122" (310 cm)	133" (338 cm)	138" (351 cm)	144" (366 cm)
Tread Width	–	96" (244 cm)	–	96" (244 cm)		96" (244 cm)		96" (244 cm)
Tread Width - Single Axle	91" (231 cm)	–	91" (231 cm)	–	91" (231 cm)		-	
Tread Width - Tandem Axle	–		106" (269 cm)	–	106" (269 cm)		102" (259 cm)	
Overall Width - Unit Shell Only	96" (244 cm)		96" (244 cm)		96" (244 cm)		101" (257 cm)	102" (259 cm)
Unit Weight	14,950 lbs (6,781 kg)	13,700 lbs (6,214 kg)	15,200 lbs (6,895 kg)	13,900 lbs (6,305 kg)	15,550 lbs (7,053 kg)	14,250 lbs (6,464 kg)	20,200 lbs (9,163 kg)	15,200 lbs (6,895 kg)
Lower Auger Flighting Thickness - Front/Rear	3/4" / 5/8" (1.9 / 1.6 cm)		3/4" / 5/8" (1.9 / 1.6 cm)		3/4" / 5/8" (1.9 / 1.6 cm)		3/4" / 5/8" (1.9 / 1.6 cm)	
Auger bottoms	3/8" (0.4 cm)		3/8" (0.4 cm)		3/8" (0.4 cm)		3/8" (0.4 cm)	
End Panel Thickness - Front and Rear	1/4" (0.6 cm)		1/4" (0.6 cm)		1/4" (0.6 cm)		1/4" (0.6 cm)	
Sidewall Thickness - Right Side	1/4" (0.6 cm)		1/4" (0.6 cm)		1/4" (0.6 cm)		1/4" (0.6 cm)	
Sidewall Thickness - Left Side	7 GA		7 GA		7 GA		7 GA	
Door Opening Size	40" X 31" (102 X 79 cm)		40" X 31" (102 X 79 cm)		40" X 31" (102 X 79 cm)		40" X 31" (102 X 79 cm)	
PTO minimum power requirement	100 hp (75 kW)	–	110 hp (82 kW)	–	120 hp (90 kW)	–	130 hp (97 kW)	–

Technical Specifications

PROFEED® PF 100 SERIES

	PF 1130	PF 1145
Capacity	1,000 ft³ (28.3 m³)	1,100 ft³ (31.1 m³)
Capacity - With 5.5'' (14 cm) / 17.75'' (45 cm) Extensions	1,100 ft³ (31.1 m³) / 1,300 ft³ (36.8 m³)	1,200 ft³ (34 m³) / 1,450 ft³ (41 m³)
Maximum Net Load	50,000 lbs (22,680 kg)	50,000 lbs (22,680 kg)
Overall Length	421'' (10.7 m)	445'' (11.3 m)
Unit Shell Length	269'' (6.8 m)	293'' (7.4 m)
Overall Height	132" (3.4 m)	132" (3.4 m)
Overall Height - With 5.5'' (14 cm) / 17.75'' (45 cm) Extensions	138" (3.5 m) / 150" (3.8 m)	138" (3.5 m) / 150" (3.8 m)
Tread Width	96" (244 cm)	96" (244 cm)
Overall Width - Unit Shell and 5.5'' (14 cm) Extensions	102" (2.6 m)"	102" (2.6 m)"
Overall Width - With 17.75'' (45 cm) Extensions	118" (3 m)	118" (3 m)
Unit Weight	¹9,960 lbs (9,054 kg)	21,440 lbs (9,725 kg)
Lower Auger Flighting Thickness - Front/Rear	¾'' / ½'' (1.9 / 1.3 cm)	¾'' / ½'' (1.9 / 1.3 cm)
Upper Auger Flighting Thickness	½'' (1.3 cm)	½'' (1.3 cm)
Auger Hopper Thickness	¼'' (0.6 cm)	¼'' (0.6 cm)
Sidewall Thickness	¼'' (0.6 cm)	¼'' (0.6 cm)
Stainless Steel Auger Bottom Liners	12 GA (0.3 cm)	12 GA (0.3 cm)
Door Opening Size	31" X 41" (79 X 102 cm)	31" X 41" (79 X 102 cm)

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