

FEEDING SOLUTIONS

Vermeer

Since Vermeer first started selling the big, round baler nearly 50 years ago, we've strived to help our customers find a better way to make hay for their cattle. With a vision of offering a comprehensive suite of hay harvesting, processing and feeding equipment to farmers and ranchers across North America, Vermeer purchased Schuler Manufacturing in 2019. Schuler's long-standing reputation of highquality products and exceptional customer support fits perfectly into the Vermeer brand promise. We're excited to offer vertical mixers and wagons in our extensive lineup of forage harvesting and processing equipment. We are confident that we can drive a new level of feeding solutions, expertise and support to the cattle industry.



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FEED WAGON OVERVIEW

Vermeer feed wagons say simplicity and flexibility. A strategic design makes these feed wagons a good fit for operators looking for a wagon that is efficient to use and maintain. These machines are an economical option. They still allow the flexibility to blend rations with various ingredients and effectively distribute a consistent ration.

FEED WAGON	CAPACITY	LOADING HEIGHT	RECOMMENDED PTO Horsepower
BF180 feed wagon	180 ft ³ (5.1 m ³)	70 in (180 cm)	60 hp (40 kW)
BF230 feed wagon	230 ft ³ (5.8 m ³)	70 in (180 cm)	60 hp (40 kW)
BF250 feed wagon	250 ft ³ (6.5 m ³)	70 in (180 cm)	60 hp (40 kW)
HF300 feed wagon	300 ft ³ (8.1 m ³)	91 in (230 cm)	Hydraulically driven
HF400 feed wagon	400 ft ³ (10.5 m ³)	96 in (240 cm)	Hydraulically driven
HF480 feed wagon	480 ft ³ (13.6 m ³)	96 in (240 cm)	Hydraulically driven

WHAT'S THE DIFFERENCE?

BF- and HF-series feed wagons have a lot in common: Both offer a certain amount of blending of feedstuffs as they progress through the machine (as long as they're layered properly), and both help control the feeding of valuable ingredients and animal feed intake, thereby more efficiently managing input costs. But they also have a few notable differences, especially when it comes to the ability to handle roughage.

BF-SERIES FEED WAGONS	HF-SERIES FEED WAGONS
Ability to handle up to 20% roughages	Ability to handle more than 20% roughages
Simple and reliable mechanical drive	Hydraulic drive for low maintenance
Option of auger or slat-and-chain discharge	Slat-and-chain discharge with folding extension
Lower loading height	Higher loading height
Smaller wagon sizes	Larger wagon sizes











LOAD IT LIKE A SANDWICH

• When loading these machines, think about making a sandwich and load in layers. This allows for even distribution as feedstuffs move on the elevator chain during discharge and distribution.

If using all forages and commodities, alternate the loading order as seen on the left-hand side of both wagons below.
If using a combination of forages and grains, you should load grain on the bottom, then hay, then silage on top as seen

on the right-hand side of both wagons below.





BF180, BF230 AND BF250 FEED WAGONS

With two options for discharge, these machines are versatile for multiple operations. Operators can choose a conveyor if they are feeding up to 20% roughages, or an auger if the operation is feeding mostly silage, grains and supplements, and little-to-no forage.

 These models feature a low 70-in (178-cm) loading height to fit many operations' tractor or skid steer sizes.

2 Two options for discharge — a conveyor for rations of up to 20% roughages or an auger for silage, grains and supplements — give customers options to fit their needs for different feedstuffs.



3 An efficient design and low tractor horsepower requirements make this machine a good fit for operators looking for a wagon that is convenient to use and maintain. This lightweight compact wagon also eases travel through adverse ground conditions.

High discharge on these models helps to get feed over bunks and allows for optimized feed placement in various applications.



HF300, HF400 AND HF480 FEED WAGONS

These models allow operators to feed pre-cut forages, byproducts, silage and grains. When layered evenly into the box, feed ingredients are agitated as they progress through the beaters and tumble down into the high-output discharge conveyor — achieving a certain amount of blending of feedstuffs.

An efficient design and hydraulic drive make this machine a good fit for operators looking for a wagon that is convenient to use and maintain.

2 A folding conveyor extension and large-capacity discharge at 26 in (66 cm) on the HF300 and 36 in (91.4 cm) on the HF400 and HF480 offer versatility while feeding.



Hay beaters are strategically placed at the front of the box to agitate feed ingredients as they move through the beaters, helping to achieve a certain amount of blending.



WHY MIX?

Profit margins are usually tight for cattle producers. They're even tighter if you're not maximizing your herd's time at the bunk with maximum nutrition and minimal feed waste. A combination of attention to your cattle feed ingredients and how you're distributing them to your herd can make a major difference in overall feed costs when compared to free-choice feeding, which is typically the greatest expense for most cattle producers. A vertical feed mixer may be part of the feed-cost equation for your operation. Here are three reasons why it might be something to consider.

1. Help prevent costly feed waste.

Feeding data shows up to 9 lb (4.1 kg) of feed is wasted per animal each day when free-choice feeding.¹ That cost can add up quickly, even when feeding part of the year and grazing during the spring and summer. Controlling consumption can help reduce feed costs.

2. Help improve ration quality with various feedstuffs.

Transitioning from free-choice hay feeding to an optimized mixed ration or a complete ration can allow producers to feed with lowercost feedstuffs and optimize rations based on feed availability and nutritional needs.

3. Deliver a consistent ration each day.

One component of delivering an optimal total mixed ration — a process that today often involves a nutritionist on many operations — is using equipment that processes, prepares and delivers the right mixture of roughage, protein and energy without increasing labor requirements.



IT JUST MAKES *CENTS*.

"With what we overfeed by free-feeding and what's wasted in a traditional scenario, we're talking about an additional cost just shy of \$130 per cow for the 150-day feeding period," Tyler Long, Purina nutritionist, said. "If we apply that to harvested forage acres, we're wasting about 1/5 of an acre if free-choice feeding versus meter feeding over 150 days. Add up other waste from free feeding like when cows pull hay out of a ring, drop it and step on it — and it equates to just under half an acre per cow from waste and overfeeding. Sure, it's only half an acre, but if you have 100 cows standing around, you have 50 acres worth of production standing around idle, doing nothing."

MEET T LINEUF

MIXER

VS350 single-screv VS420 single-screw

VS510 single-screw

VS570 single-screw

VT600 twin-screw

VT660 twin-screw

VT750 twin-screw

VT750 Premium tw

VT830 twin-screw

VT970 twin-screw

VT970 Premium tw

VT1150 Premium t

VT1310 Premium t VX1690 Premium t

With multiple size Vermeer lineup vertical feed mix the option to ble ingredients like and ethanol cop result is a consis operator feeds of

THF	FREE-CHOICE FEEDING	FEED WAGONS	VERTICAL MIXERS
P .	Little to no mixing	Moderate blending	Exceptional mixing
izes available, the	High feed waste	Minimal feed waste	Minimal feed waste
of feed wagons and	Minimal nutritional balance	Moderate nutritional balance	Maximum nutritional balance
ixers gives operators	Manual labor	Machine labor	Machine labor
lend or mix all ration	Low upfront cost	Moderate upfront cost	Large upfront cost
e dry hay, silage, grain products at once. The sistent ration when the cattle.	Vermeer vertical mixers come standard ² with AR200 steel tub walls and screw flighting for long-lasting performance and durability.	* * * * * * * * * * * * * * * * * * *	A36 €
	CAPACITY	LOADING HEIGHT ⁴	RECOMMENDED PTO Horsepower
ew vertical mixer	350 ft³ (9.9 m³)	106 in (269 cm)	100 hp (75 kW)
ew vertical mixer	420 ft ³ (11.9 m ³)	110 in (280 cm)	120 hp (89 kW)
w vertical mixer	510 ft ³ (14.2 m ³)	120 in (300 cm)	130 hp (97 kW)
w vertical mixer	570 ft ³ (17 m ³)	125 in (318 cm)	150 hp (110 kW)
vertical mixer	600 ft ³ (17 m ³)	109 in (277 cm)	150 hp (110 kW)
vertical mixer	660 ft ³ (18.1 m ³)	105 in (267 cm)	170 hp (130 kW)
vertical mixer	750 ft ³ (21.2 m ³)	123 in (312 cm)	180 hp (130 kW)
vin-screw vertical mixer	750 ft ³ (21.2 m ³)	123 in (312 cm)	180 hp (130 kW)
vertical mixer	830 ft ³ (23.4 m ³)	116 in (295 cm)	180 hp (130 kW)
vertical mixer	970 ft ³ (27.5 m ³)	127 in (323 cm)	200 hp (150 kW)
vin-screw vertical mixer	970 ft ³ (27.5 m ³)	127 in (323 cm)	200 hp (150 kW)
twin-screw vertical mixer	1,150 ft ³ (32.6 m ³)	139 in (353 cm)	220 hp (160 kW)
twin-screw vertical mixer	1,310 ft ³ (37.1 m ³)	155 in (394 cm)	230 hp (170 kW)
triple-screw vertical mixer	1,690 ft ³ (47.9 m ³)	143 in (363 cm)	250 hp (190 kW)

³Vermeer Corporation, ASTM G65 test procedure; March, 2021. ⁴With standard tires.



VS350 SINGLE-SCREW VERTICAL MIXER

Small but mighty, the Vermeer VS350 single-screw vertical mixer has a high screw rpm to minimize mixing time and optimize cleanout. Very little material is left in the tub — a benefit of two bi-pulse kickers plus the leading edge of the screw. This mixer also features a 4-point scale which offers optimal accuracy over a typical 3-point scale found on this size of mixer. This compact machine is ideal for small- to mid-sized operations.

1 The VS350 features high screw rpm (when selecting 1,000-rpm PT0), which optimizes mixing speed and allows for thorough cleanout. This feature works alongside the two bi-pulse legs and leading edge of the screw to move the feedstuffs efficiently onto the discharge. Vermeer mixers feature a 4-point scale that helps improve accuracy, compared to a 3-point scale. The scale helps operators optimize rations and achieve more defined targets when feeding in multiple pens. Plus, scales are equipped with Bluetooth connectivity, so operators can view weight from their smart device.

2 An optional 2-speed gearbox helps relieve horsepower demand while mixing heavy rations.

MIXER	CAPACITY	LOADING HEIGHT	RECOMMENDED PTO Horsepower
VS350 single-screw vertical mixer	350 ft ³ (9.9 m ³)	106 in (269 cm)	100 hp (75 kW)



VS420, VS510 AND VS570 SINGLE-SCREW VERTICAL MIXERS

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The Vermeer VS420, VS510 and VS570 single-screw vertical mixers have durable components for reliability and long-lasting performance. Two bi-pulse legs and the leading edge of the screw work together to create three points of contact with the tub floor for efficient cleanout. Optimize your feeding routine and mix a wide variety of feedstuffs with these machines.

Heavy-duty, abrasion-resistant AR200 steel makes these single-screw vertical mixers ready for years of use, various feedstuffs and numerous loads.

2 Vermeer mixers are designed with three points of contact with the tub floor, including two bi-pulse legs and the leading edge of the screw. These points of contact help optimize cleanout of material from the tub during discharge.

ic.el	MIXER	CAPACITY	LOADING HEIGHT	RECOMMENDED PTO Horsepower	MAXIMUM RECOMMENDED BALE SIZE
	VS420 single-screw vertical mixer	420 ft ³ (11.9 m ³)	110 in (280 cm)	120 hp (89 kW)	4 ft x 5 ft (1.2 m x 1.5 m)
	VS510 single-screw vertical mixer	510 ft ³ (14.2 m ³)	120 in (300 cm)	130 hp (97 kW)	5 ft x 6 ft (1.5 m x 1.8 m)
855	VS570 single-screw vertical mixer	570 ft ³ (17 m ³)	125 in (318 cm)	150 hp (110 kW)	5 ft x 6 ft (1.5 m x 1.8 m)



OVERLAPPING SCREW DESIGN

All Vermeer twin-screw vertical mixers are a testament to logical, practical engineering. Two overlapping screws and offset baffles on the tub wall help to achieve a consistent, thorough mix. Instead of feedstuffs remaining in either the front or the back of the tub, the construction of the tub and screws encourages the material to travel between the screws in a clockwise motion.

Overlapping screw design — The leading edge of each screw and two bi-pulse legs take turns sweeping the middle floor of the tub for better mixing. The screws pull feed from opposite screw chambers, creating a positive feed exchange from front to rear, speeding up mix time and optimizing feed discharge.

Screw flighting — Built with AR200 steel, the heavyduty flighting on the screws encourages feedstuffs up. The result? A thorough mix of ingredients from top to bottom and bottom to top.



PREMIUM MODELS

Built with reliability, durability and longevity in mind, Vermeer Premium models feature thicker tub walls, thicker tub floors, thicker screw flighting and a standard remote display for the scale system. This trim level is optional on the VT750 and VT970, and standard on the VT1150 and VT1310 twin-screw vertical mixers and the VX1690 triple-screw vertical mixer.

SPECIFICATION	STANDARD	PREMIUM
Tub wall thickness	1/4 in (.6 cm)	3/8 in (.9 cm)
Tub floor thickness	3/4 in (1.9 cm)	1 in (2.5 cm)
Screw flighting thickness	5/8 in (1.6 cm)	3/4 in (1.9 cm)
Scale system remote display	Optional on select models	Standard

Bi-pulse legs — Along with the leading edge of the screw, bipulse legs on each screw create three points of contact to sweep the floor of the mixer, enhancing mixing and cleanout.

 Offset baffles — These uniquely designed baffles move feedstuffs from the front to the back of the tub in a clockwise motion between the screws for a thorough mix. The overlapping screw design allows for smaller baffles, which means less unused space and more room for feed to move and mix.



VT660 **TWIN-SCREW VERTICAL MIXER**

A high screw rpm and low loading height make the Vermeer VT660 twin-screw vertical mixer popular with mid-sized feedlots. Quick, efficient cleanout can help save time and frustration for operators, too.

4820

A 4-point scale helps operators be confident in load weights. Optimize rations and achieve defined targets when feeding in multiple pens. Plus, Bluetooth connectivity makes load weights accessible from a smart device.

2 The standard 2-speed gearbox is designed to relieve horsepower demand while mixing heavy rations. Use the low speed (32 rpm) at the start of the mix and use the high speed (48 rpm) for cleanout.

MIXER	CAPACITY	LOADING HEIGHT	RECOMMENDED PTO Horsepower
VT660 twin-screw vertical mixer	660 ft ³ (18.1 m ³)	105 in (267 cm)	170 hp (127 kw)

At just 105 in (267 cm), the VT660 twin-screw vertical mixer has the lowest loading height of all Vermeer vertical mixers. The low loading height provides versatility among different operations during loading, feeding and storage in situations where clearance restrictions may be present.



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All Vermeer twin-screw vertical mixers are a testament to logical, practical engineering. Two overlapping screws and offset baffles on the tub wall help to achieve a consistent, thorough mix. Instead of feedstuffs remaining in either the front or the back of the tub, the construction of the tub and screws encourages the material to travel between the screws in a clockwise motion.

5 Three points of contact with the tub floor, made up of two bi-pulse legs and the leading edge of the screw, help move material from the tub to the discharge conveyor for consistent distribution along a bunk line.

> 6 The VT660 features a high screw rpm, which optimizes mixing speed and allows for thorough cleanout.



VT600, VT750 AND VT750 PREMIUM TWIN-SCREW VERTICAL MIXERS

Built on the same base platform, the VT600, VT750 and VT750 Premium twin-screw vertical mixers work well for a variety of operations. With a standard full set of knives on the overlapping screws, they help produce consistent particle sizes for rations containing higher amounts of roughage.

1 Two bi-pulse legs and the leading edge of the screw make up three points of contact with the tub floor to help improve cleanout over only one or two points of contact. This helps feedstuffs be evenly distributed onto the discharge conveyor for feeding.

For operations that do the majority of their feeding in an alleyway, optional bi-directional discharge makes feeding convenient. Feed on either the right or left side of your alley when traveling between pens or multiple buildings.

3 The tractor's PTO powers the screw through two extra heavy-duty planetaries specifically designed to help extend machine life. This helps make this machine ready for long-lasting performance.

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ER	CAPACITY	LOADING HEIGHT	RECOMMENDED PTO Horsepower
0 twin-screw vertical mixer	600 ft ³ (17 m ³)	109 in (277 cm)	150 hp (110 kW)
0 twin-screw vertical mixer	750 ft ³ (21.2 m ³)	123 in (312 cm)	180 hp (130 kW)
0 Premium twin-screw vertical mixer	750 ft ³ (21.2 m ³)	123 in (312 cm)	180 hp (130 kW)



1.

- Every pound of feed counts. That's why the Vermeer vertical mixers are equipped with a 4-point scale. With optimal accuracy, operators can focus on feeding accurate rations to multiple pens. Bluetooth connectivity comes standard with the Digi-Star scale, and standard remote display gives operators the ability to view load weight from their smart device.
- With the option to add a stainless steel liner to the tub, operators can be confident their mixer will withstand various types of feedstuffs for minimized rust and maximized durability.

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VT750

6 The screw design works with the offset baffles to move feedstuffs from the front to the back of the tub, in a clockwise motion between the screws for an appropriately blended mix.

The VT750 Premium twin-screw vertical mixer has all the features of the VT750 twin-screw vertical mixer, but with thicker sidewalls, a thicker tub floor and thicker screw flighting for maximized strength, durability and longevity.

- Sidewalls: 3/8-in (.9-cm) AR200
- Tub floor: 1-in (2.5-cm) AR200
- Screw flighting: 3/4-in (1.9-cm) AR200



VT830, VT970 AND VT970 PREMIUM **TWIN-SCREW VERTICAL MIXERS**

The Vermeer VT830, VT970 and VT970 Premium twin-screw vertical mixers are built for high-volume operations. With features unique to each of them, like the large capacity and low loading height of the VT830 twin-screw vertical mixer, or the ability to choose a single axle with dual tires or a tandem-spring axle with four large super-single tires on the VT970 and VT970 Premium, one of these mixers is sure to become an essential part of your operation.

1 The 4-point scale is designed to help producers target and achieve precise rations. With Bluetooth connectivity, operators can view weight readouts directly from their smart device while loading the machine.

2 For maximized durability, and to help prevent corrosion, operators can get the optional stainless steel liner.

3 Equipped with versatile options, the VT830 twin-screw vertical mixer gives operators the ability to choose a mixer with single tires or dual tires for use in different ground conditions and can be configured with the tandem spring axel. The VT970 twin-screw vertical mixer gives operators the option to configure a single axle with dual tires or a tandem-spring axle with four large super-single tires.

lixer	CAPACITY	LOADING HEIGHT	RECOMMENDED PTO Horsepower
T830 twin-screw vertical mixer	830 ft ³ (23.4 m ³)	116 in (295 cm)	180 hp (130 kW)
T970 twin-screw vertical mixer	970 ft ³ (27.5 m ³)	127 in (323 cm)	200 hp (150 kW)
T970 Premium twin-screw vertical mixer	970 ft ³ (27.5 m ³)	127 in (323 cm)	200 hp (150 kW)

Feed is more valuable in the bunk than left in the tub. That is why Vermeer mixers feature two bi-pulse legs and the leading edge of the screw to form three points of contact with the tub floor to optimize cleanout and minimize feed waste.

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VT830

5 Not only do producers want a consistent mix, their cows do, too. Twin-screw vertical mixers from Vermeer come equipped with an overlapping screw design and offset baffles along the tub wall. Together, the screws, baffles and tub geometry work to move material from the front chamber to the back chamber for a thorough mix.

(VT830 ONLY) At 830 ft³ (23.4 m³), the VT830 twin-screw vertical mixer has an attractive loading height at just 116 in (295 cm). This low loading height provides versatility among different operations with height restrictions during loading, feeding and storage, while also allowing them to have a mixer of this capacity.

(VT970 Premium ONLY) Premium mixers from Vermeer are for high-volume operators who need maximum durability. The VT970 Premium offers the same features of a VT970 but with thicker tub walls, floor and screw flighting. They also allow operators to view weight readouts from three different places: standard display, smart device via Bluetooth connectivity or from the additional remote display.



VT1150 PREMIUM TWIN-SCREW VERTICAL MIXER

With a commercial-duty planetary and larger size for maximum load capacity, the VT1150 Premium twin-screw vertical mixer is ideal for large operations. A standard planetary cooling system and optional 2-speed gearbox cooling allow for hours of constant use — translating into maximized component life. With two overlapping screws and offset baffles, a consistent blend of feedstuffs can be achieved with every mix.

Feedstuffs mix optimally when going between both chambers of the tub. This is accomplished with an overlapping screw design and offset baffles placed on the tub wall, helping achieve a consistent, thorough mix.

The 2-speed gearbox allows operators to mix at different speeds at different phases in the feeding cycle.

3 The VT1150 Premium features two commercial-duty planetary gearboxes. An optional cooling system allows for long life of the planetary.

MIXER	CAPACITY	LOADING HEIGHT	RECOMMENDED PTO Horsepower
VT1150 Premium twin-screw vertical mixer	1,150 ft ³ (32.6 m ³)	139 in (353 cm)	220 hp (160 kW)





To want

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VT 1150

5 Premium mixers from Vermeer have increased steel thickness on the tubs, floor and screw flighting. The tub wall and screw flighting are constructed with abrasion-resistant AR200 steel.

6 Operators can be satisfied knowing these machines work to minimize feed left in the tub. Two bi-pulse legs, plus the leading edge of the screw, team up to create three points of contact with the tub floor to minimize cleanout time compared to mixers with only one or two points of contact with the floor.

7 Knowing the load weight is critical for mixing accurate rations. Premium vertical mixers offer an additional remote scale display for visibility to real-time weight readouts. Producers can also view weights from the standard scale head or on their smart device via Bluetooth connectivity.



VT1310 PREMIUM **TWIN-SCREW VERTICAL MIXER**

With a large 1,310-ft³ (37.1-m³) capacity, producers using the VT1310 Premium twin-screw vertical mixer are feeding a lot of cattle in a day and need to count on their mixer for a consistent blend.

The VT1310 Premium is equipped with an overlapping screw design that works directly with offset baffles to move the feedstuff from one chamber to the other in a clockwise motion.

(2) The automatic 2-speed transmission gives operators peace of mind knowing that the transmission is placing itself in high or low based upon real time torque measurements.

Two commercial-grade planetaries are housed within the gearbox 3 on the VT1310 Premium. A standard cooling system allows for use day in, day out.

4 When buying a premium-series mixer from the Vermeer lineup, operators can expect maximized durability. The VT1310 Premium is equipped with a 3/8-in (.9-cm) thick tub wall, 3/4-in (1.9-cm) screw flighting and 1-in (2.5-cm) floor thickness. The tub wall and screw flighting are made from abrasion-resistant AR200 steel.

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MIXER

VX1690 Premium trij

MIXER	CAPACITY	LOADING HEIGHT	RECOMMENDED PTO Horsepower
VT1310 Premium twin-screw vertical mixer	1,310 ft ³ (37.1 m ³)	155 in (394 cm)	230 hp (170 kW)

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VX1690 PREMIUM **TRIPLE-SCREW VERTICAL MIXER**

A big operation needs a big mixer to get the job done. With heavy-duty components like a commercial-grade 2-speed gearbox and planetary, three overlapping screws with directional offset baffles and three points of contact with the tub floor per screw for optimal cleanout, this mixer is built for optimal durability.

When handling large amounts of feedstuffs, knowing the weight at any moment is important. The VX1690 Premium is equipped with a standard 8-point scale and standard scale display, an additional remote display and Bluetooth connectivity to see the weight on any smart device.

The VX1690 Premium has three commercial-grade planetary gearboxes. A standard cooling system allows for long life of

3 The automatic 2-speed transmission gives operators peace of mind knowing that the transmission is placing itself in high or low based upon real time torque measurements



4 Three heavy-duty overlapping screws work in conjunction with directional offset baffles to allow a consistent mix throughout the load. As different feedstuffs move through the tub, these components work together to allow a complete transfer of materials from the front to the back of the tub in a clockwise motion, resulting in a thoroughly mixed ration.

(5) A big mixer needs the right components to allow thorough cleanout. That's why the VX1690 Premium is equipped with three points of contact with the tub floor, formed by two bipulse legs and the leading edge of the screw, to encourage cleanout and minimized feed waste.

6 With a mixer this large, operators need the ability to feed in multiple different ways. That's why the VX1690 Premium offers front discharge or quad-door side discharge.

	CAPACITY	LOADING HEIGHT	RECOMMENDED PTO Horsepower		
ple-screw vertical mixer	1,690 ft ³ (47.9 m ³)	143 in (363 cm)	250 hp (190 kW)		

Illustration shown

SPECIFICATION	BF180	BF230	BF250	HF300	HF400	HF480	
DIMENSIONS AND WEIGHTS							
Machine weight	hine weight 2,760 lb (1,250 kg) 3,104 lb (1,408 kg		3,400 lb (1,540 kg)	4,400 lb (2000 kg)	5,560 lb (2,520 kg)	6,300 lb (2,900 kg)	
Transport width	98 in (250 cm)	98 in (250 cm)	110 in (280 cm)	95 in (240 cm)	95 in (240 cm)	115 in (292 cm)	
Working width	108 in (274 cm)	108 in (274 cm)	120 in (305 cm)	135 in (343 cm)	135 in (343 cm)	149 in (378 cm)	
Total height	84 in (210 cm)	84 in (210 cm)	84 in (210 cm)	101 in (257 cm)	102 in (259 cm)	102 in (259 cm)	
Loading height	70 in (180 cm)	70 in (180 cm)	70 in (180 cm)	91 in (230 cm)	96 in (240 cm)	96 in (240 cm)	
Tires	295/75R-22.5	295/75R-22.5	295/75R-22.5	295/75R-22.5	425/65R-22.5	425/65R-22.5	
BOX							
Capacity	180 ft ³ (5.1 m ³)	230 ft ³ (5.8 m ³)	250 ft ³ (6.5 m ³)	300 ft ³ (8.1 m ³)	400 ft ³ (10.5 m ³)	480 ft ³ (13.6 m ³)	
Inside box length	132 in (335 cm)	162 in (411 cm)	162 in (411 cm)	147 in (373 cm)	177 in (450 cm)	177 in (450 cm)	
Inside box width — below flare	54 in (140 cm)	54 in (140 cm)	60 in (150 cm)	60 in (150 cm)	60 in (150 cm)	72 in (180 cm)	
nside box width — above flare 60 in (150 cm)		60 in (150 cm)	66 in (170 cm)	NA	NA	NA	
Floor material	Steel	Steel	Steel	Poly	Poly	Poly	
DISCHARGE SYSTEM							
Discharge style	Conveyor or auger	Conveyor or auger	Conveyor or auger	Conveyor	Conveyor	Conveyor	
Discharge direction	Left	Left	Left	Left	Left	Left	
Conveyer length	82 in (210 cm)	82 in (210 cm)	94 in (240 cm)	NA	NA	NA	
Fold-up conveyer extension length	NA	NA	NA	44 in (110 cm)	44 in (110 cm)	44 in (110 cm)	
Auger length	80.5 in (204 cm)	80.5 in (204 cm)	94 in (240 cm)	NA	NA	NA	
TRACTOR REQUIREMENTS							
Recommended PTO horsepower	60 hp (40 kW)	60 hp (40 kW)	60 hp (40 kW)	NA	NA	NA	
Hydraulic type	Optional, 1 double-acting	Optional, 1 double-acting	Optional, 1 double-acting	2 double-acting	2 double-acting	2 double-acting	
Hydraulic pressure	Optional, 1800 psi (124 bar)	Optional, 1800 psi (124 bar)	Optional, 1800 psi (124 bar)	1,800 psi (124 bar)	1,800 psi (124 bar)	1,800 psi (124 bar)	
Hydraulic flow	Optional, 10 gpm (38 L/min)	Optional, 10 gpm (38 L/min)	Optional, 10 gpm (38 L/min)	14 gpm (53 L/min)	14 gpm (53 L/min)	14 gpm (53 L/min)	
DRIVE SYSTEM							
Mechanical drive	Standard	Standard	Standard	NA	NA	NA	
PTO speed	540 rpm	540 rpm	540 rpm	NA	NA	NA	
Hydraulic drive	Optional hydraulic orbit motor	Optional hydraulic orbit motor	Optional hydraulic orbit motor	Standard	Standard	Standard	
SCALE SYSTEM							
Scale	Optional	Optional	Optional	Optional	Optional	Standard	
Scale display	Digi-Star EZ2500V	Digi-Star EZ2500V	Digi-Star EZ2500V	Digi-Star EZ2500V	Digi-Star EZ2500V	Digi-Star EZ2500V	
Number of weigh bars	3	3	3	3	3	3	
Jack stand weigh bar	Optional	Optional	Optional	Optional	Optional	Optional	

SPECIFICATION DIMENSIONS AND WEIG

Loading height — standar Machine weight — standar Maximum net load (lb) Total length (in) Transport width — 50-in folding conveyor extr Transport width — 119-in bi-directional conve

Working width — 50-in folding conveyor exter Working width — 119-in bi-directional conve

Tires (retread)

TUB AND SCREWS

Capacity
Number of screws
Number of knives per screw
Tub wall thickness
Tub wall material
Floor thickness
Screw flighting thickness
Screw flighting material
DISCHARGE SYSTEM
Discharge style
Discharge direction

Folding conveyor extensio

Bi-directional conveyor ler

Rear discharge door

TRACTOR REQUIREMEN

Minimum PTO horsepower Recommended PTO horse

DRIVE SYSTEM

Driveline Two-speed gearbox

Torque protection

Screw rpm

SCALE SYSTEM

Scale display Number of weigh bars Bluetooth connectivity Remote display

	VS350	V\$420	VS510	VS570		
EIGHTS						
dard	106 in (269 cm)	110 in (280 cm)	120 in (300 cm)	125 in (318 cm)		
ndard	7,990 lb (3,624 kg)	10,020 lb (4,545 kg)	10,275 lb (4,660 kg)	11,870 lb (5,380 kg)		
	12,000 lb (5,400 kg)	14,000 lb (6,350 kg)	15,000 lb (6,800 kg)	17,000 lb (7,700 kg)		
	202 in (513 cm)	211 in (536 cm)	214 in (544 cm)	218 in (554 cm)		
extension	111 in (282 cm)	117 in (297 cm)	118 in (300 cm)	121 in (307 cm)		
onveyor	NA	NA	NA	NA		
extension	130 in (330 cm)	135 in (343 cm)	137 in (348 cm)	140 in (356 cm)		
onveyor	NA	NA	NA	NA		
	Standard: 255/70R-22.5 Optional: 14-17.5 skid steer	Standard: 445/50R-22.5 Optional: 445/50R-22.5 lug; Optional 255/70R-22.5 dual	Standard: 445/50R-22.5 Optional: 445/50R-22.5 lug; Optional 255/70R-22.5 dual	Standard: 445/50R-22.5 Optional: 445/50R-22.5 lug		
	350 ft ³ (9.9 m ³)	420 ft ³ (11.9 m ³)	510 ft ³ (14.2 m ³)	570 ft ³ (17 m ³)		
	1	1	1	1		
screw	5	6	7	7		
	1/4 in (.6 cm)	1/4 in (.6 cm)	1/4 in (.6 cm)	1/4 in (.6 cm)		
	Regular structural steel	AR200	AR200	AR200		
	1/2 in (1.3 cm)	3/4 in (1.9 cm)	3/4 in (1.9 cm)	3/4 in (1.9 cm)		
SS	1/2 in (1.3 cm)	5/8 in (1.6 cm)	5/8 in (1.6 cm)	5/8 in (1.6 cm)		
1	AR200	AR200	AR200	AR200		
	Front conveyor	Front conveyor	Front conveyor	Front conveyor		
	Left or right	Left or right	Left or right	Left or right		
sion length	25 in/40 in/50 in/65 in (64 cm/100 cam/130cm/165 cm)	25 in/40 in/50 in/65 in (64 cm/100 cam/130cm/165 cm)	25 in/40 in/50 in/65 in (64 cm/100 cam/130cm/165 cm)	25 in/40 in/50 in/65 in (64 cm/100 cam/130cm/165 cm)		
length	101 in/110 in/119 in (257 cm/280 cm/302 cm) OR 101 in (257 cm) hydraulic shift	101 in/110 in/119 in (257 cm/280 cm/302 cm) OR 101 in (257 cm) hydraulic shift	101 in/110 in/119 in (257 cm/280 cm/302 cm) OR 101 in (257 cm) hydraulic shift	101 in/110 in/119 in (257 cm/280 cm/302 cm) OR 101 in (257 cm) hydraulic shift		
	NA	NA	NA	NA		
ENTS						
wer	90 hp (70 kW)	100 hp (75 kW)	120 hp (89 kW)	130 hp (97 kW)		
rsepower	100 hp (75 kW)	120 hp (89 kW)	130 hp (97 kW)	150 hp (110 kW)		
	Standard: 1,000 rpm, CV: Optional: 540 rpm, CV	Standard: 1,000 rpm, CV: Optional: 540 rpm, CV	Standard: 1,000 rpm, CV: Optional: 540 rpm, CV	1,000 rpm, CV		
	Optional	Optional	Optional	Optional		
	Shear bolt	Shear bolt	Shear bolt	Shear bolt		
	1,000 rpm configuration - 48 (1 speed); 48/32 (2 speed): 540 rpm configuration - 40 (1 speed); 40/27 (2 speed)	Standard: 39 (1 speed); 39/26 (2 speed) Optional: 48/32 (2 speed, 100rpm)	39 (1 speed); 39/26 (2 speed)	39 (1 speed); 39/26 (2 speed)		
	Digi-Star EZ2810-BT	Digi-Star EZ2810-BT	Digi-Star EZ2810-BT	Digi-Star EZ2810-BT		
	4	4	4	4		
	Standard	Standard	Standard	Standard		
	NA	NA	NA	NA		

SPECIFICATION	VT600	VT660	VT750	VT750 PREMIUM	VT830	VT970	VT970 PREMIUM	VT1150 PREMIUM	VT1310 PREMIUM	VX1690 PREMIUM
DIMENSIONS AND WEIGHTS										
Loading height — standard	109 in (277 cm)	105 in (267 cm)	123 in (312 cm)	123 in (312 cm)	116 in (295 cm)	127 in (323 cm)	127 in (323 cm)	139 in (353 cm)	155 in (394 cm)	143 in (363 cm)
Machine weight — standard	13,780 lb (6,250 kg)	13,625 lb (6,180 kg)	15,580 lb (7,067 kg)	17,535 lb (7,950 kg)	16,240 lb (7,370 kg)	20,165 lb (9,150 kg)	22,880 lb (10,380 kg)	24,800 lb (11,200 kg)	27,000 lb (12,200 kg)	38,750 lb (17,600 kg)
Maximum net load (lb)	19,000 lb (8,600 kg)	18,000 lb (8,160 kg)	21,000 lb (9,530 kg)	21,000 lb (9,530 kg)	21,000 lb (9,530 kg)	25,000 lb (11,300 kg)	25,000 lb (11,300 kg)	30,000 lb (13,600 kg)	37,000 lb (16,780 kg)	45,000 lb (20,400 kg)
Total length (in)	273 in (693 cm)	285 in (724 cm)	277 in (704 cm)	277 in (704 cm)	298 in (757 cm)	300 in (762 cm)	300 in (762 cm)	303 in (770 cm)	311 in (790 cm)	394 in (1,000 cm)
Transport width —	. ,									
50-in folding conveyor extension	113 in (287 cm)	117 in (297 cm)	119 in (302 cm)	119 in (302 cm)	120 in (305 cm)	NA	NA			
Transport width — 119-in bi-directional conveyor	NA	NA	NA	NA	NA	119 in (302 cm)	119 in (302 cm)	119 in (302 cm)	119 in (302 cm)	119 in (302 cm)
Working width — 50-in folding conveyor extension	130 in (330 cm)	135 in (343 cm)	136 in (345 cm)	136 in (345 cm)	138 in (351 cm)	NA	NA			
Working width — 119-in bi-directional conveyor	NA	NA	NA	NA	NA	119 in (302 cm)	119 in (302 cm)	119 in (302 cm)	119 in (302 cm)	119 in (302 cm)
Tires (retread)	Standard 425/65R-22.5; Optional 255/70R-22.5 dual	Standard 445/50R-22.5; Optional 445/50R-22.5 lug	Standard 425/65R-22.5; Optional 255/70R-22.5 dual	Standard 255/70R-22.5 dual; Optional 425/65R-22.5	Standard 425/65R-22.5; Optional 255/70R-22.5 dual	Standard 315/80R-22.5 dual; Optional 445/50R-22.5 tandem	Standard 315/80R-22.5 dual; Optional 445/50R-22.5 tandem	Standard 315/80R-22.5 dual; Optional 255/70R-22.5 dual, tandem; 445/50R-22.5 tandem	315/80R-22.5 dual, tandem steerable	315/80R-22.5 dual, tandem steerable
TUB AND SCREWS										
Capacity	600 ft ³ (17 m ³)	660 ft ³ (18.1 m ³)	750 ft ³ (21.2 m ³)	750 ft ³ (21.2 m ³)	830 ft ³ (23.4 m ³)	970 ft ³ (27.5 m ³)	970 ft ³ (27.5 m ³)	1,150 ft ³ (32.6 m ³)	1,310 ft ³ (37.1 m ³)	1,690 ft ³ (47.9 m ³)
Number of screws	2	2	2	2	2	2	2	2	2	3
Number of knives per screw	5	5	7	7	6	7	7	11	11	11
Tub wall thickness	1/4 in (.6 cm)	1/4 in (.6 cm)	1/4 in (.6 cm)	3/8 in (.9 cm)	1/4 in (.6 cm)	1/4 in (.6 cm)	3/8 in (.9 cm)	3/8 in (.9 cm)	3/8 in (.9 cm)	3/8 in (.9 cm)
Tub wall material	AR200	Regular structural steel	AR200	AR200	AR200	AR200	AR200	AR200	AR200	AR200
Floor thickness	3/4 in (1.9 cm)	5/8 in (1.6 cm)	3/4 in (1.9 cm)	1 in (2.5 cm)	3/4 in (1.9 cm)	3/4 in (1.9 cm)	1 in (2.5 cm)	1 in (2.5 cm)	1 in (2.5 cm)	1 in (2.5 cm)
Screw flighting thickness	5/8 in (1.6 cm)	1/2 in (1.3 cm)	5/8 in (1.6 cm)	3/4 in (1.9 cm)	5/8 in (1.6 cm)	5/8 in (1.6 cm)	3/4 in (1.9 cm)	3/4 in (1.9 cm)	3/4 in (1.9 cm)	3/4 in (1.9 cm)
Screw flighting material	AR200	AR200	AR200							
DISCHARGE SYSTEM										
Discharge style	Front conveyor	Front conveyor	Front conveyor							
Discharge direction	Left or right	Left or right	Left or right							
Folding conveyor extension length	25 in/40 in/50 in/65 in (64 cm/100 cam/130cm/165 cm)	25 in/40 in/50 in/65 in (64 cm/100 cam/130cm/165 cm)	25 in/40 in/50 in/65 in (64 cm/100 cam/130cm/165 cm)	25 in/40 in/50 in/65 in (64 cm/100 cam/130cm/165 cm)	25 in/40 in/50 in/65 in (64 cm/100 cam/130cm/165 cm)	25 in/40 in/50 in/65 in (64 cm/100 cam/130cm/165 cm)	25 in/40 in/50 in/65 in (64 cm/100 cam/130cm/165 cm)	25 in/40 in/50 in/65 in (64 cm/100 cam/130cm/165 cm)	25 in/40 in/50 in/65 in (64 cm/100 cam/130cm/165 cm)	25 in/40 in/50 in/65 in (64 cm/100 cam/130cm/165 cm)
Bi-directional conveyor length	101 in/110 in/119 in (257 cm/280 cm/302 cm) OR 101 in (257 cm) hydraulic shift	101 in/110 in/119 in (257 cm/280 cm/302 cm) OR 101 in (257 cm) hydraulic shift	101 in/110 in/119 in (257 cm/280 cm/302 cm) OR 101 in (257 cm) hydraulic shift	101 in/110 in/119 in (257 cm/280 cm/302 cm) OR 101 in (257 cm) hydraulic shift	101 in/110 in/119 in (257 cm/280 cm/302 cm) OR 101 in (257 cm) hydraulic shift	101 in/110 in/119 in (257 cm/280 cm/302 cm) OR 101 in (257 cm) hydraulic shift	101 in/110 in/119 in (257 cm/280 cm/302 cm) OR 101 in (257 cm) hydraulic shift	101 in/110 in/119 in (257 cm/280 cm/302 cm) OR 101 in (257 cm) hydraulic shift	101 in/110 in/119 in (257 cm/280 cm/302 cm) OR 101 in (257 cm) hydraulic shift	101 in/110 in/119 in (257 cm/280 cm/302 cm) OR 101 in (257 cm) hydraulic shift
Rear discharge door	Optional	NA	Optional	Optional	Optional	Optional	Optional	Optional	Standard	Standard (front discharge), Optional (side discharg
TRACTOR REQUIREMENTS										
Minimum PTO horsepower	140 hp (100 kW)	150 hp (110 kW)	150 hp (110 kW) (2-speed)	150 hp (110 kW) (2-speed)	150 hp (110 kW) (2-speed)	180 hp (130 kW) (2-speed)	180 hp (130 kW) (2-speed)	190 hp ((140 kW) 2-speed)	200 hp (150 kW) (2-speed)	230 hp (170 kW) (2-speed)
Recommended PTO horsepower	150 hp (110 kW)	170 hp (130 kW)	180 hp (130 kW)	180 hp (130 kW)	180 hp (130 kW)	200 hp (150 kW)	200 hp (150 kW)	220 hp (160 kW)	230 hp (170 kW)	250 hp (190 kW)
DRIVE SYSTEM										
Driveline	1,000 rpm, CV	1,000 rpm; non-CV	1,000 rpm; non-CV							
Two-speed gearbox	Optional	Standard	Optional	Optional	Optional	Optional	Optional	Optional	Standard	Standard
Torque protection	Shear bolt	Auto-reset torque-limiting clutch	Auto-reset torque-limiting clutch							
Screw rpm	39 (1-speed); 39/26 (2 speed)	48/32 (2-speed)	39 (1-speed); 39/26 (2-speed)	39 (1-speed); 39/26 (2-speed)	39 (1-speed); 39/26 (2-speed)	39 (1-speed); 39/26 (2-speed)	39 (1-speed); 39/26 (2-speed)	34 (1-speed); 34/23 (2-speed)	34/19 (2-speed)	34/19 (2-speed)
SCALE SYSTEM										
Scale display	Digi-Star EZ2810-BT	Digi-Star EZ2810-BT	Digi-Star EZ2810-BT							
Number of weigh bars	4	4	4	4	4	4	4	4	4	8
Bluetooth connectivity	Standard	Standard	Standard							
Remote display	NA	NA	Optional	Standard	NA	Optional	Standard	Standard	Standard	Standard

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