

Livestock Feeding Equipment Product Catalogue



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OUR MISSION

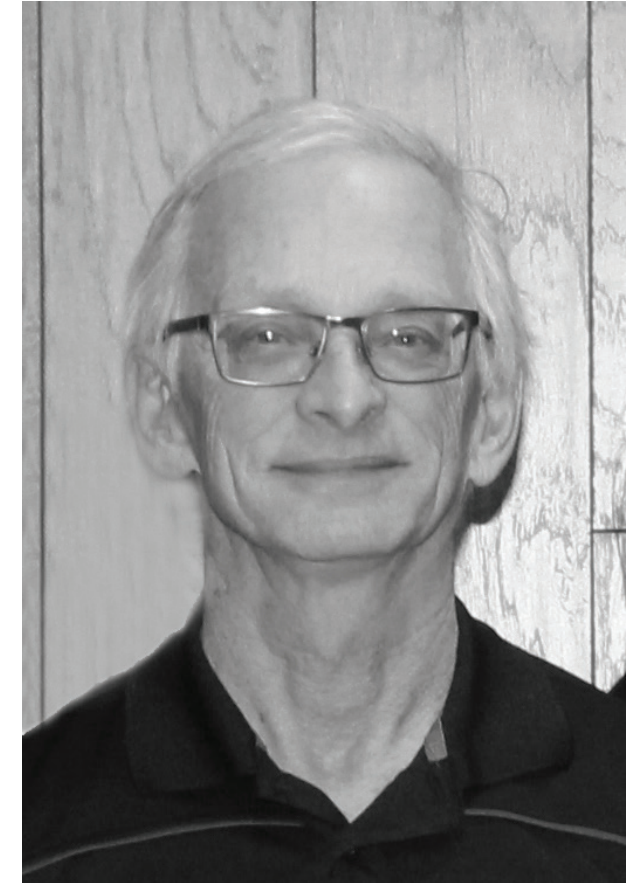
Our mission is to design, manufacture and distribute the highest quality, most durable and reliable farm equipment in the world, which is affordable and meets or exceeds the expectations of our most demanding customers.

Highline Manufacturing is a division of Bourgault Industries Ltd. and as such shares a common standard of "pursuing perfection" in their business approach. Highline's shared approach is to develop relevant products of the highest quality that exceed the expectations of our most discerning customers.





Much of the dialogue within the animal production community is about efficiency in utilization of resources and conversations on how consumers will buy product in the future. Both are future oriented but efficiency has an immediate effect and can be implemented with known methodology and existing technology. The beef industry is by nature an activity conducted on the fringe of agricultural inputs. Historically marginal grasslands were the main areas for animal production as they were largely available, and mixed farming was growing. Beef cows can successfully consume medium and low quality forages which are lower in cost than other available ingredients. However, changes in technology and specialization began to favour crop production due to yield increases. Over decades of time costs for crop inputs rose the equation became favourable again to beef production on marginal lands and is now strongly showing that producers who are committed to learning the Best Farming Practices for Beef will gain record returns for beef this year. Those who are rebuilding their herds may wait until next year but some are paying high prices for breeding stock already in anticipation of consumer demand staying strong and national herd numbers remaining tight at historically low numbers of cows not seen since the sixties. The emphasis at the farm level is to look at incorporating technology to improve the bottom line. Highline™ is positioned well to assist farmers with various levels of technology in feeding and mixing. Bale Pro's equipped with a chopper can improve utilization of medium and low quality forages thereby letting the forage supply give more feeding days by reducing waste. Mixers can blend forages to achieve more accurate formulations and expand the range of formulations to achieve strategic feeding plans. Highline™ is set with information and an expanded product line to meet the challenges at the farm gate for dairy and beef producers. We look forward to working with dealers and farmers to increase efficiency and improve farmers' profitability wherever possible.



CORPORATE RUMINANT NUTRITIONIST

John Maltman, M.Sc., P.Ag.

For further details on Precision Feeding visit: www.highlinemfg.com

BALE PRO[®]

models

4 MODELS - each with unique advantages.

The Bale Pro[®] series from Highline[®] allows you to efficiently process round and square bales (model dependent). With 4 options to choose from there's one that is the best fit for your cattle operation. The Bale Pro[®] modular system allows you to expand your machine as your operation evolves.



**Dual Feed Roller Processor
Requires Minimal Maintenance**

BP 660 Bale Pro[®]

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**Chain & Slat Processor
Offers Ease of Use**

BP 661 Bale Pro[®]

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**Delivers Effective Bedding and Coverage
Solutions for Agriculture and Construction**

BP 663 TOP GUN[®]

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**Process Square or Round Bales - Adds Flexibility
When Using Multiple Bale Types**

BP 965 Bale Pro[®]

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BP 660 BALE PRO®



PROCESS this way

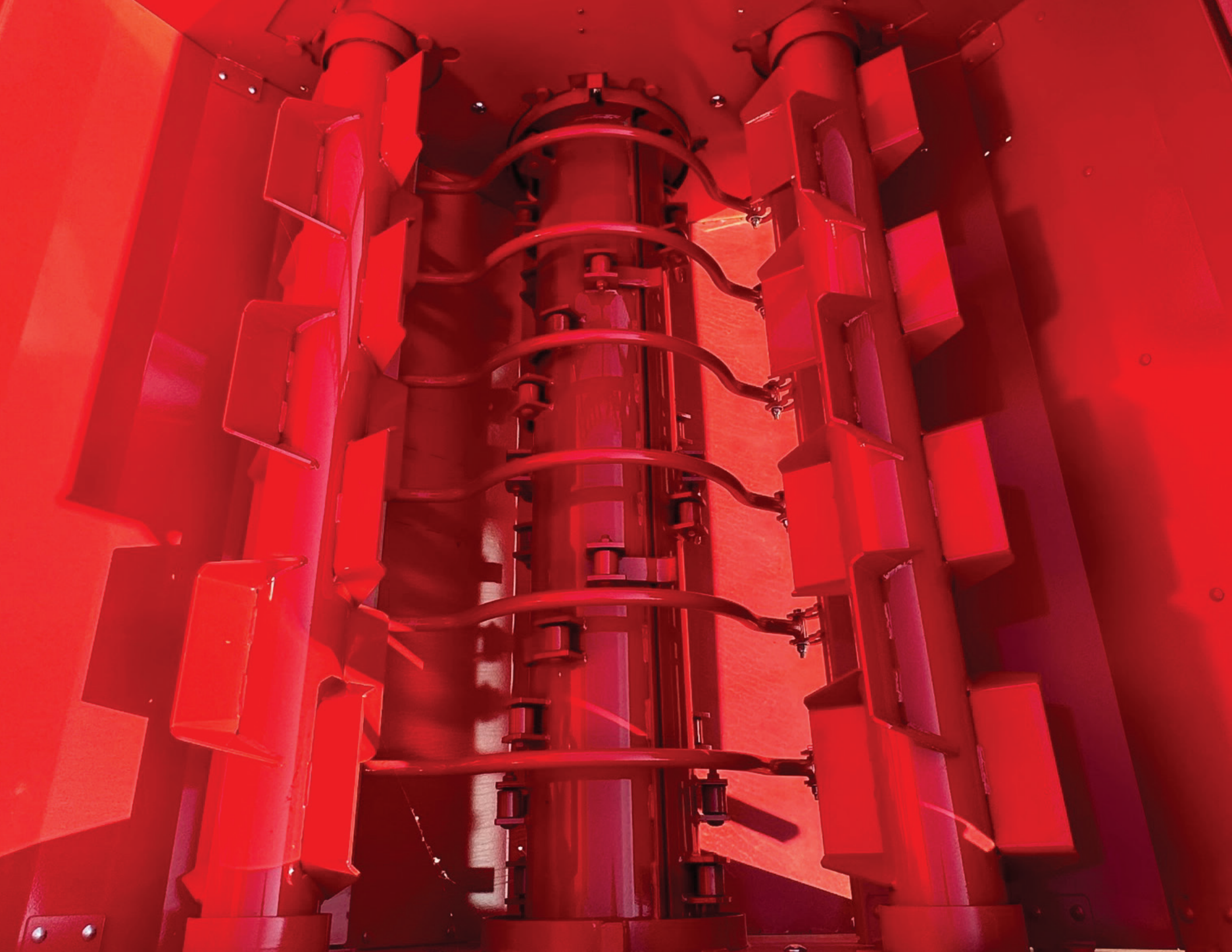
The BP 660 Bale Pro® is a great option for cattle operations looking for a durable, well-engineered bale processor. The BP 660 Bale Pro® has a dual feed roller processing chamber with a centrally driven flail drum. Expand your BP 660 by adding a Feed Chopper™ and Grain Tank (See page 34 for additional information on the Bale Pro® modular system).

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PRECISION
feeding



BP 660 BALE PRO®



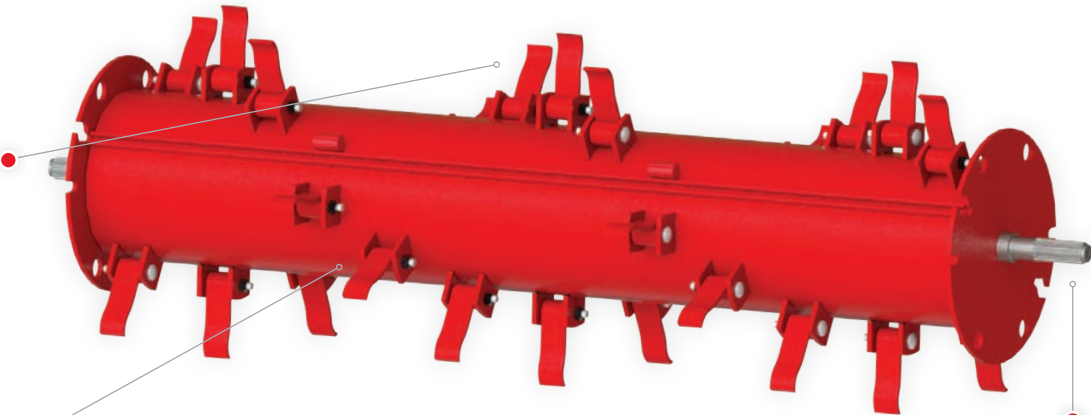
The **Dual Feed Roller Processing Chamber** of the **BP 660 Bale Pro**®

Dual feed roller processing chamber also on the BP 663 TOP GUN® and BP 965 Bale Pro®.

The Highline® flails efficiently "bite" into the bale for uniform feed processing. The flails are optimally sized to grab the bale.

The stepped shaft design is machined from a single length of material vastly improving strength and durability of the drum.

The flails are designed in a spiral formation. This spiral formation ensures that the bale is continuously pulled and processed resulting in consistent feed. Also, the flail drum is digitally balanced for smooth performance and long bearing life.



Stepped Shaft Design

1 Guard Rods

The bale sits partially on the guard rods. The flails protrude through the guard rods grabbing the bale and pulling it through. The guard rods are shaped to provide a very uniform rate of processing.

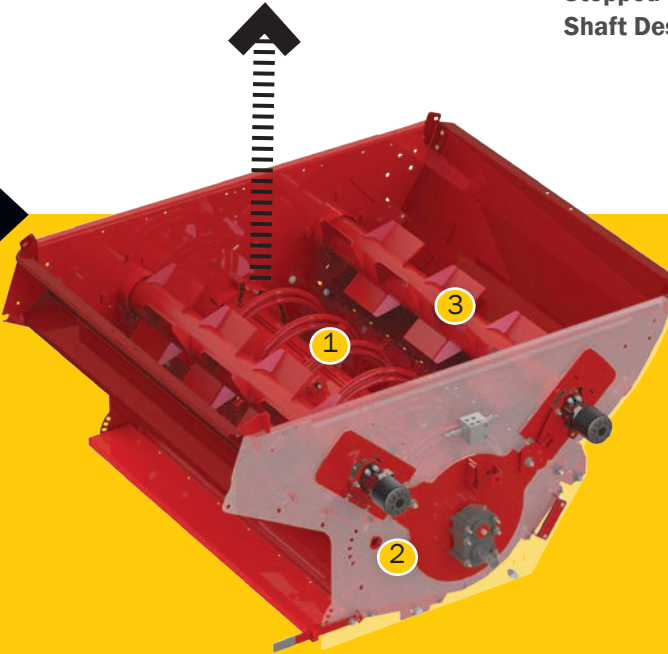
Additional guard rods can easily be added for more bale control while processing.

2 Adjustable Aggression

Bales can be processed more or less aggressively depending on your needs. Processing can be set in a range of 1-5, with 1 being the slowest and 5 being the fastest processing rate. Flails engage the dual bale from 1/8" up to 1 3/4" for faster processing.

3 Feed Rollers

Highline® feed rollers come with four rows of steel paddles. This design pulls the feed through for more consistent processing and reduced build up of material. The dual feed rollers allow the flail drum to be centrally located in the chamber providing up to 60' (18.3 m)* of material discharge distance.



* Contingent on environmental and operating conditions.

Fork Position Indicator

For improved positioning
when loading the second
bale.

Adjustable Axles

Adjust to a wide stance in uneven terrain for stability, or adjust to a narrow stance for passing through gates and narrow barn doors.

Hi-Flotation Tires

Each Bale Pro® model is designed with appropriately sized hi-flotation tires allowing for easy maneuverability through challenging terrain.

Axle Twine Guard

The Axle Twine Guard eliminates the nuisance of twine getting tightly wrapped around the wheel axle.

Fork Length

Fork length of 67 ½" (1.71 m) for full bale engagement.

Adjustable Forks (up to 50" between inside faces)

Lift bales from the smallest silage up to 6' (1.83 m). Lift from the row and load them into the Bale Pro®.

Rear Deflectors

Standard on all models.

Screen Design

For better material containment.

Dual Feed Roller Processing Chamber

(See page 11).

Hose Holder

Keep hoses protected and out of the mud! Quickly hook up to the tractor with the hoses now located conveniently beside the tractor remotes. The hose holder locks out of the way during hook up or for shipping.

Motor Protection Valve

Reduces pressure spikes increasing the motor life and durability.



BP 660

SPECIFICATIONS

	Base 660 Bale Pro®	Base 660 Bale Pro® with Feed Chopper™	Base 660 Bale Pro® with Grain Tank	Base 660 Bale Pro® with FC* & GT**
PTO Minimum HP	85 hp (64 kW)	125 hp (94 kW)	100 hp (75 kW)	125 hp (94 kW)
PTO Recommended HP	100 hp (75 kW)	140 hp (105 kW)	125 hp (94 kW)	140 hp (105 kW)
Transport Width	112" (2.84 m)	112" (2.84 m)	141 ½" (3.59 m)	141 ½" (3.59 m)
Transport Height	130 ½" (3.31 m)	130 ½" (3.31 m)	130 ½" (3.31 m)	130 ½" (3.31 m)
Working Height Maximum	152" (3.86 m)	152" (3.86 m)	152" (3.86 m)	152" (3.86 m)
Length to End of Tires	174" (4.42 m)	174" (4.42 m)	174" (4.42 m)	174" (4.42 m)
Length to End of Forks Down	223 ½" (5.68 m)	223 ½" (5.68 m)	223 ½" (5.68 m)	223 ½" (5.68 m)
Discharge***	Right Hand	Right Hand	Right Hand	Right Hand
Weight	5050 lb (2291 kg)	5820 lb (2640 kg)	6090 lb (2762 kg)	6860 lb (3112 kg)
Tongue Weight (Unloaded)	1610 lb (730 kg)	1890 lb (857 kg)	1975 lb (896 kg)	2225 lb (1009 kg)
Hydraulics	3 Remote	3 Remote	3 Remote	3 Remote
Driveline	1000 rpm PTO 1¾" 21 Spline	1000 rpm PTO 1¾" 21 Spline	1000 rpm PTO 1¾" 21 Spline	1000 rpm PTO 1¾" 21 Spline
Tires	16.5L x 16.1	16.5L x 16.1	16.5L x 16.1	16.5L x 16.1
Size of Bales	Up to 6' (1.83 m) diameter	Up to 6' (1.83 m) diameter	Up to 6' (1.83 m) diameter	Up to 6' (1.83 m) diameter
Discharge End Curtains, Top and Rear Deflectors	Standard	Standard	Standard	Standard
2 Hydraulic Remote	Option	Option	Option	Option

* FC - Feed Chopper

** Grain Tank capacity - 45 bushels (1587 L)

*** Right/left hand is determined by sitting in the tractor seat looking forward.

All weights and transport dimensions are estimates and are subject to change.

While every effort has been made to ensure that the information is accurate/current at the time of production, all specifications are subject to change.

If livestock is being fed, it is the operator's responsibility to ensure that the materials in the processed feed mix are suitable. Some of the wrapping material (twine, net wrap or other materials) may be discharged with the feed if the wrapping materials are not removed prior to processing.

For the latest product information, please visit: www.highlinemfg.com.

BP 661 BALE PRO®



PROCESS that way

The BP 661 Bale Pro® is also a great option for cattle operations looking for a durable, well-engineered bale processor. An alternative to the BP 660 Bale Pro®, the 661 Bale Pro® has a slat and chain processing chamber with an offset flail drum. Expand your BP 661 by adding a Feed Chopper™ and Grain Tank (See page 34 for additional information on the BP modular system).

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PRECISION
feeding



BP 661 BALE PRO®

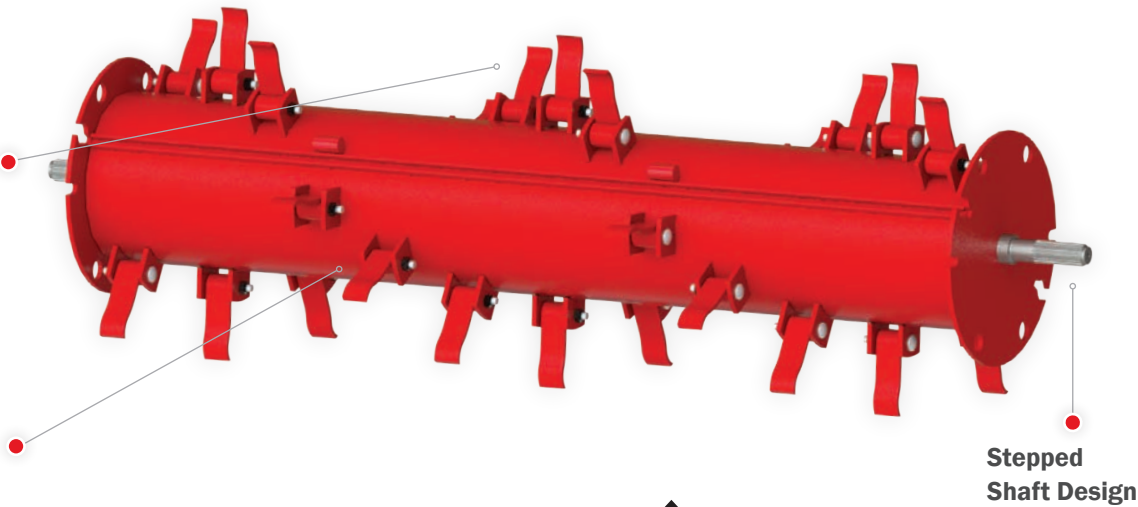


The **Slat & Chain Processing Chamber** of the **BP 661 Bale Pro**®

The Highline® flails efficiently "bite" into the bale for uniform feed processing. The flails are optimally sized to grab the bale.

The stepped shaft design is machined from a single length of material vastly improving strength and durability of the drum.

The flails are designed in a spiral formation. This spiral formation ensures that the bale is continuously pulled and processed resulting in consistent feed. Also, the flail drum is digitally balanced for smooth performance and long bearing life.



1 Guard Rods

Guard rods are designed for uniform processing from beginning to end.

2 Adjustable Aggression

Bales can be processed more or less aggressively depending on your needs. Processing can be set in a range of 1-5, with 1 being the slowest and 5 being the fastest processing rate. Flails engage the bale from 1/8" up to 1 1/2" for faster processing.

3 Slat & Chain Feeder

The Highline® Slat & Chain feed system is designed utilizing durable 2080H chain with no center bearing on the feeder chain rollers.

BP 663 TOP GUN®



DELIVERING EFFECTIVE bedding solutions

The Highline® BP 663 TOP GUN® is a rugged, highly effective agricultural implement for bedding and feeding applications, as well as coverage solutions for environmental and land reclamation. It provides uniform coverage as it throws material up to 80 feet (24.3 meters)*, or feeds by gently dropping a windrow from its side discharge.

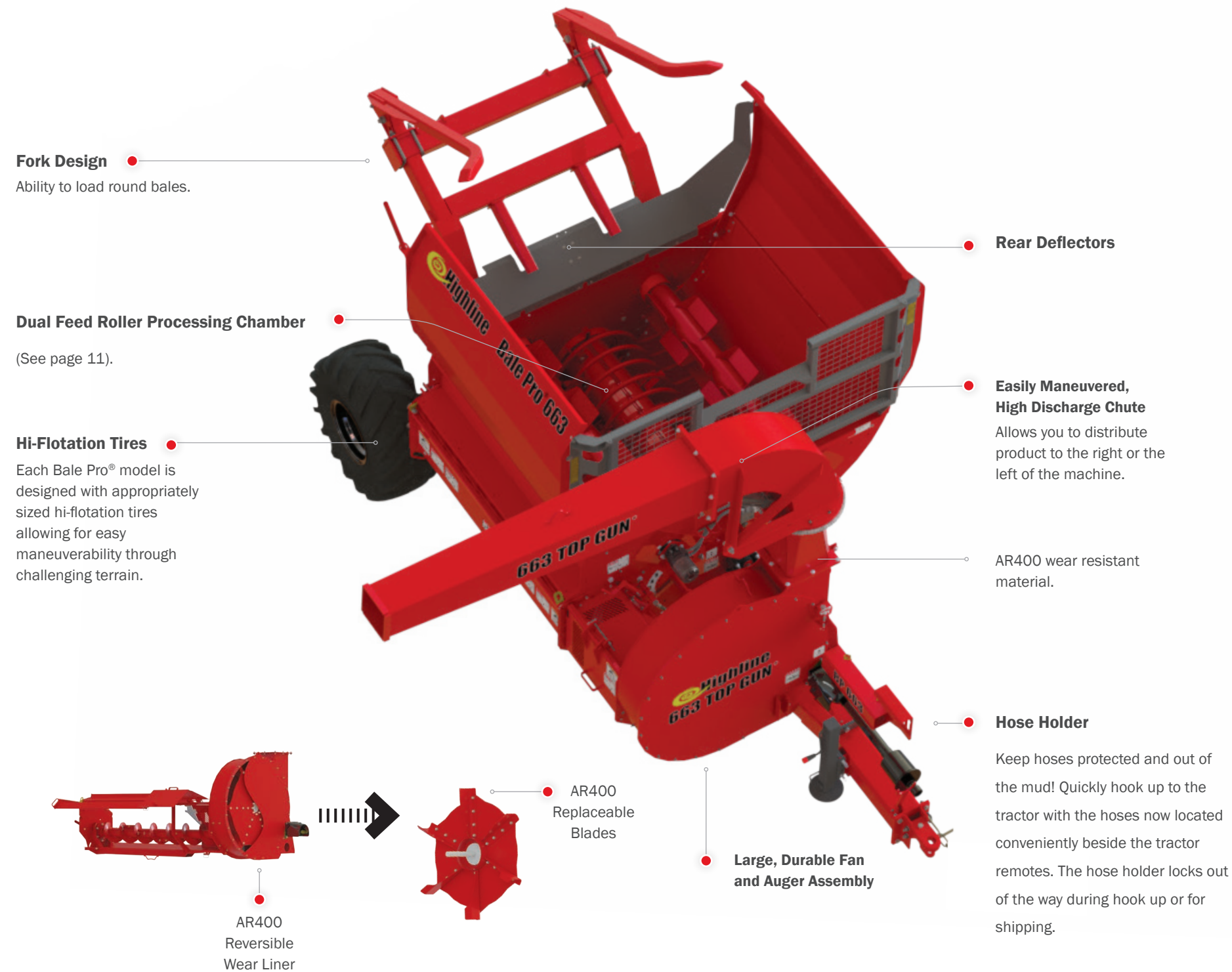
* Contingent on environmental and operating conditions.

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feeding



BP 663 TOP GUN®

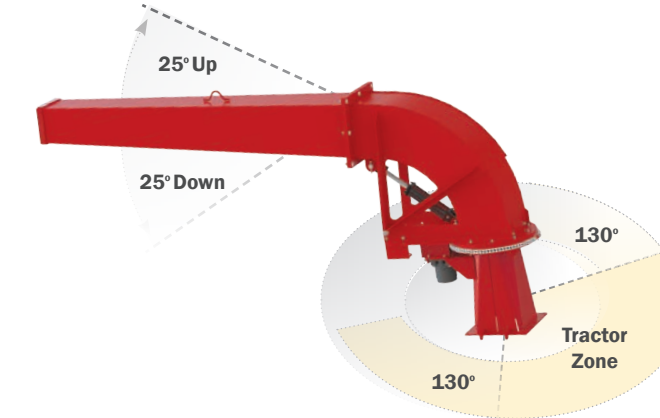


3 CHUTE OPTIONS AVAILABLE

● Curved Discharge Chute



● Long Discharge Chute



● Curved Discharge Chute with End Deflector



● Joystick Control (optional)

The joystick control option is an easy to use single remote control for all functions including bale load, bale rotation and discharge chute control both horizontally and vertically. This option results in less operator fatigue with very little effort to perform all hydraulic functions of the machine.



Easily and accurately position the discharge chute from the tractor cab for accurate placement of feed or bedding. With a wide range of motion (chute rotates 130 degrees left and 130 degrees right, as well as 25 degrees up and down), the discharge chute (84" (2.13 m) long, 11' (3.35 m) high nozzle) can be directed to throw material up to 80' (24.3 m)*. *NOTE: Right/Left hand is determined by sitting in the tractor seat looking forward.*

* contingent on environmental and operating conditions.

The Most Efficient Way to Put Out Bedding.

The TOP GUN® can easily reach over the top of bunks and fences to blow straw into pens to bed cattle.

The TOP GUN® makes feeding and bedding a quick and comfortable process for both the cattle and yourself.



TOP GUN® SPECIFICATIONS

PTO Recommended HP	165 hp (124 kW)
Transport Width	108 ½” (2.75 m)
Transport Height	131 ½” (3.34 m)
Working Height Maximum (Nozzle Extended)	165” (4.19 m)
Length to End of Tires	203 ½” (5.17 m)
Length to End of Forks Down	250 ½” (6.37 m)
Weight	7780 lb (3518 kg)
Tongue Weight (Unloaded)	2815 lb (1277 kg)
Discharge	Left/Center/Right
Hydraulics	3 Remote
Driveline	1000 PTO 1 ¾” 21 Spline with over-running clutch

Tires	16.5L x 16.1
Size of Bales	Up to 6’ (1.83 m) diameter
Top Deflectors	Standard
Rear Deflector	Standard
Rear Facing Lights	Option
1 Remote Joystick	Option
Hydraulic Aggression Control	Option

All weights and transport dimensions are estimates and are subject to change.

While every effort has been made to ensure that the information is accurate/current at the time of production, all specifications are subject to change.

If livestock is being fed, it is the operator’s responsibility to ensure that the materials in the processed feed mix are suitable. Some of the wrapping material (twine, net wrap or other materials) may be discharged with the feed if the wrapping materials are not removed prior to processing.

For the latest product information, please visit: www.highlinemfg.com.

BP 965 BALE PRO®



REAL flexibility

Ideal for feeding and bedding - the BP 965 Bale Pro® offers all of the proven design features found on the Highline® Bale Pro® series with the added flexibility to process round or square bales as desired...as well as other beneficial design features like a 9' (2.74 m) flail drum which increases processing rate.

PRECISION
feeding



BP 965 BALE PRO®

SIMPLE
Design.

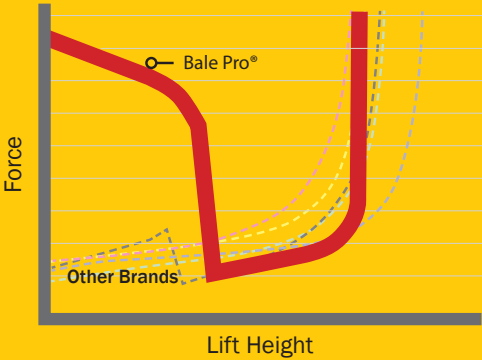


Loads large square bales lengthwise.

EXTREME
Lifting Power.

With the highest breakout force in the industry, the Highline® Vertical Lift design allows you to release even the most stubbornly frozen bales from the ground with ease. Also, because the bale is lifted straight up off of the ground, the scrubbing action against the bale stack is minimized, reducing bale damage and waste.

Lift Capacity

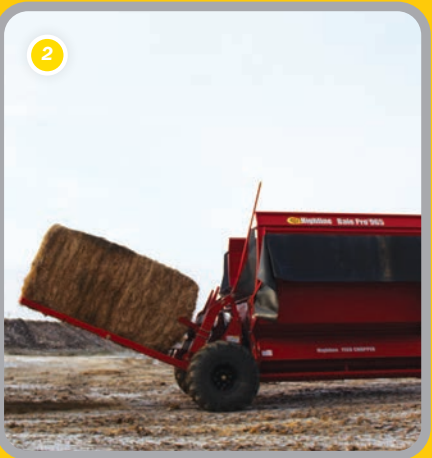


EFFICIENT LENGTHWISE PROCESSING
of Square Bales.

One of the challenges of processing square bales is maintaining both a high loading efficiency AND high processing efficiency (the competition fails to deliver on either one or the other). The BP 965 Bale Pro® capable of processing a 4' x 4' x 9' ** (1.2 x 1.2 x 2.7 m) bale in minutes! The Twine Sickle™ Bale Prepping System on the BP 965 helps with this efficiency.*



The vertical bale lift is a 2 stage lift system where the first stage of the process lifts the bale straight off of the ground. Little space is required to accommodate this design.



The bale is lifted.



The bale is aligned with the flail drum for efficient processing.



The Twine Sickle™ cuts the twine and the bale is dropped loosely into the tub (the loose consistency helps with uniform processing).

*Bale processing times are contingent on bale type, aggression setting and tractor horsepower.

**Forages may react differently when the twine pressure is removed.



HOW IT WORKS:

As the square bale is lifted, it slides down into the cutting bar where its weight engages the Twine Sickle™ sections. A hydraulic cylinder is actuated from the cab which slides the sections through the end of the bale and cuts the twine, prior to dumping the bale in the processing chamber. The cutting of the twine prior to loading the bale in the tub results in faster processing.



EASILY CUT THROUGH TWINE

WITH THE TWINE SICKLE™ BALE PREPPING SYSTEM

(for square bales)

The Twine Sickle™ - The Bale Prepping System uses the weight of the square bale to effectively cut the twine prior to processing.

Fork Position Indicator

For improved positioning when loading the second bale.

Adjustable Axles

Adjust to a wide stance in uneven terrain for stability, or adjust to a narrow stance for passing through gates and narrow barn doors.

Hi-Flotation Tires

Each Bale Pro® model is designed with appropriately sized hi-flotation tires allowing for easy maneuverability through challenging terrain.

Axle Twine Guard

The Axle Twine Guard eliminates the nuisance of twine getting tightly wrapped around the wheel axle.

Twine Sickle™

Effectively cut the twine on square bales. See pages 30-31.

Fork Design

Adjustable length fork design for round or square bales.

Rear Deflectors

Standard on all models.

Screen Design

For better material containment.

Dual Feed Roller Processing Chamber

(See page 11).

Hose Holder

Keep hoses protected and out of the mud! Quickly hook up to the tractor with the hoses now located conveniently beside the tractor remotes. The hose holder locks out of the way during hook up or for shipping.

Motor Protection Valve

Reduces pressure spikes increasing the motor life and durability.



BP 965

SPECIFICATIONS

	Base 965 Bale Pro®	Base 965 Bale Pro® with Feed Chopper™	Base 965 Bale Pro® with Grain Tank	Base 965 Bale Pro® with FC* & GT**
PTO Minimum HP	100 hp (75 kW)	140 hp (105 kW)	100 hp (75 kW)	140 hp (105 kW)
PTO Recommended HP	115 hp (86 kW)	165 hp (122 kW)	125 hp (94 kW)	165 hp (122 kW)
Transport Width	112" (2.84 m)	112" (2.84 m)	141 ½" (3.59 m)	141 ½" (3.59 m)
Transport Height	136" (3.45 m)	136" (3.45 m)	136" (3.45 m)	136" (3.45 m)
Working Height Maximum	189 ½" (4.81 m)	189 ½" (4.81 m)	189 ½" (4.81 m)	189 ½" (4.81 m)
Length to End of Tires	210" (5.33 m)	210" (5.33 m)	210" (5.33 m)	210" (5.33 m)
Length to End of Forks Down	302" (7.67 m)	302" (7.67 m)	302" (7.67 m)	302" (7.67 m)
Discharge***	Right Hand	Right Hand	Right Hand	Right Hand
Hydraulics	3 Remote	3 Remote	3 Remote	3 Remote
Driveline	1000 rpm PTO 1⅜" 21 Spline	1000 rpm PTO 1⅜" 21 Spline	1000 rpm PTO 1⅜" 21 Spline	1000 rpm PTO 1⅜" 21 Spline
Weight	7375 lb (3345 kg)	8390 lb (3806 kg)	8480 lb (3847 kg)	9495 lb (4307 kg)
Tongue Weight (Unloaded)	2400 lb (1088 kg)	2760 lb (1252 kg)	2715 lb (1232 kg)	3070 lb (1393 kg)
Tires	16.5L x 16.1	16.5L x 16.1	16.5L x 16.1	16.5L x 16.1
Max. Size of Bales Round Square	6' (1.83 m) 4' x 4' x 9' (1.2 x 1.2 x 2.7 m)	6' (1.83 m) 4' x 4' x 9' (1.2 x 1.2 x 2.7 m)	6' (1.83 m) 4' x 4' x 9' (1.2 x 1.2 x 2.7 m)	6' (1.83 m) 4' x 4' x 9' (1.2 x 1.2 x 2.7 m)
Twine Sickle™, Discharge End Curtains, Top and Rear Deflectors	Standard	Standard	Standard	Standard
2 Hydraulic Remote	Option	Option	Option	Option

* FC - Feed Chopper

** Grain Tank capacity - 45 bushels (1587 L)

*** Right/left hand is determined by sitting in the tractor seat looking forward.

All weights and transport dimensions are estimates and are subject to change.

While every effort has been made to ensure that the information is accurate/current at the time of production, all specifications are subject to change.

If livestock is being fed, it is the operator's responsibility to ensure that the materials in the processed feed mix are suitable. Some of the wrapping material (twine, net wrap or other materials) may be discharged with the feed if the wrapping materials are not removed prior to processing.

For the latest product information, please visit: www.highlinemfg.com.

the Bale Pro[®] MODULAR SYSTEM

1

THE Base Bale Pro[®]

Highline[®] Bale Pros[®] aggressively spin and loosen the bale for uniform feeding into the flail processing chamber, allowing for range or bunk feeding.

2

Feed Chopper[™]

The Highline[®] Feed Chopper[™] is a secondary processing option that allows you to produce a consistent, shorter cut length; the shorter cut length creates a more consistent feed output and gets rid of long stems.

3

Grain Tank

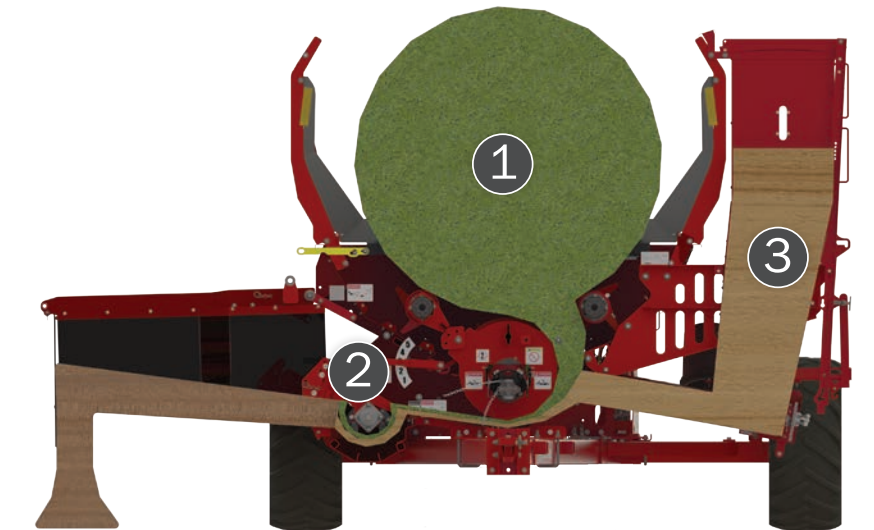
The hydraulically driven Grain Tank boasts a 45 bushel (1587 l) tank. The grain is inserted, rather than dropped onto the forage resulting in an evenly mixed feed ration.

The Bale Pro[®] modular system adds flexibility to your Bale Pro[®] system allowing you to add components as your operation requirements shift.

Bale Pro[®]
= BP

How the BP System Impacts the Bottom Line - Analyze The Numbers
The Bale Pro[®] System:

- Reduces the labor requirements to provide proper nutrition. This provides the greatest benefits at calving season—no chop pails or rolled grain wagons, no necessity for 2 operators and 2 tractors.
- Eliminates the cost to own or rent a tub grinder.
- Eliminates waste from spoilage of batch processing.
- Ability to run bedding through the Feed Chopper[™] increases absorption in various indoor applications.



*looking from the front of the Bale Pro[®]

- ① The bale is processed.
- ② The Feed Chopper[™] slices processed forage, cracks grain and blends the mix into a ration.
- ③ Metered grain is inserted into the feed stream.

1 the BASE BALE PRO®



Highline's Bale Pros® chop and mix round or square bales (model dependent), reducing sorting and waste.

BP 660 / BP 661 / BP 663 TOP GUN® / BP 965

The Bale Pro® advantages:



Discharge Door

Accommodate a wide range of bunks or windrowing with this lengthened, one piece discharge door.



Extremely Durable Construction

The durable, 6 X 4 A-Frame design and continuous tube structure of all Bale Pros® handles heavy loads. The continuous frame member eliminates weld stress points when operating in harsh environments.



2 Stage Bale Lift

The 2 stage vertical lift reduces the bale being lifted from "scrubbing" on the bales in the bale stack, as well as eliminates the need to clutch the tractor between bales.

1 the BASE BALE PRO®

BP 660 / BP 661 / BP 663 TOP GUN® / BP 965

Rear Deflectors

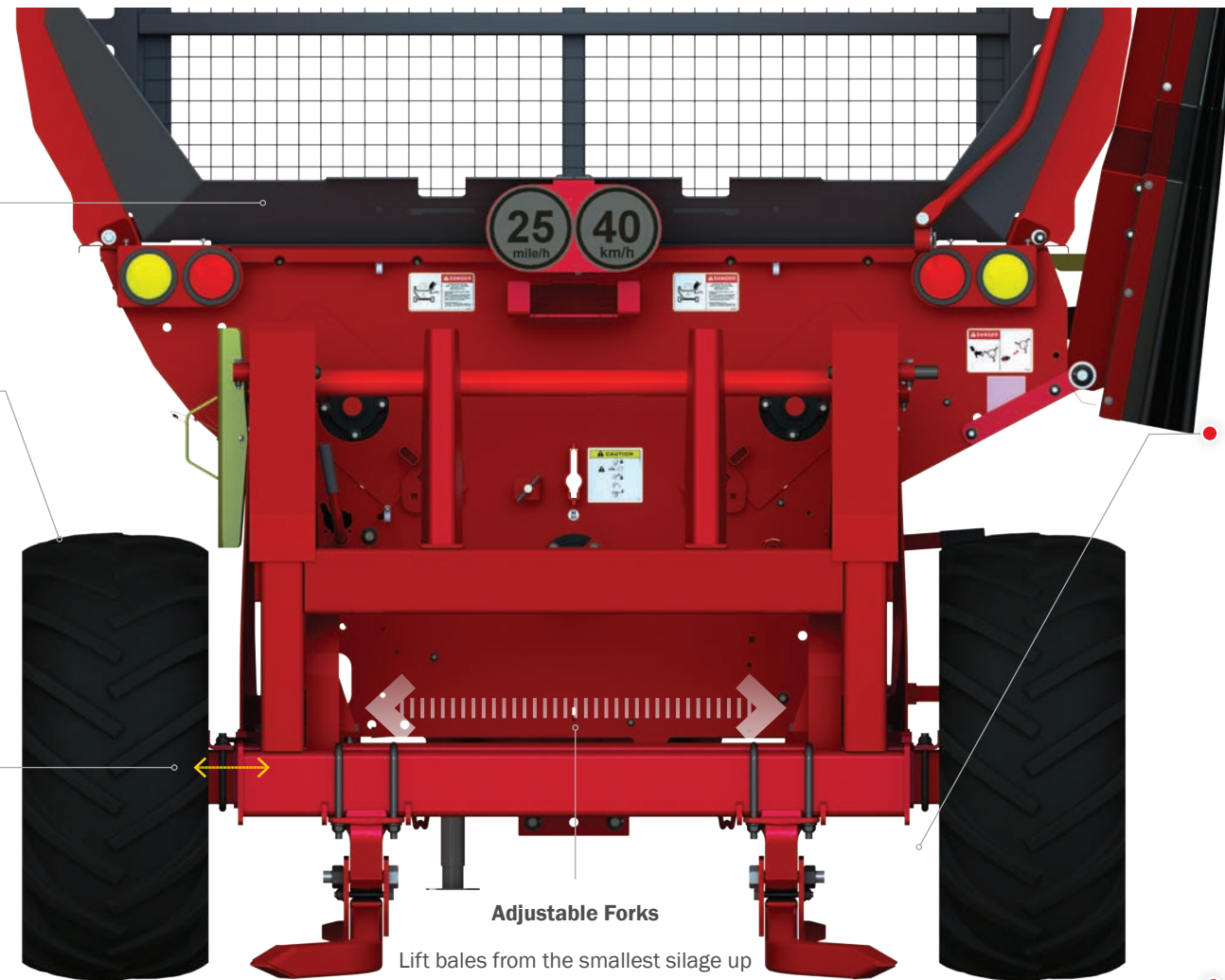
Standard on all models.

Hi-Flotation Tires

Each Bale Pro® model is designed with appropriately sized hi-flotation tires allowing for easy maneuverability through challenging terrain.

Adjustable Axles

Adjust to a wide stance in uneven terrain for stability, or adjust to a narrow stance for passing through gates and narrow barn doors.



Axle Twine Guard



The Axle Twine Guard eliminates the nuisance of twine getting tightly wrapped around the wheel axle.

Fork Length

Fork length of 67 ½" (1.71 m) for full bale engagement.

Adjustable Forks

Lift bales from the smallest silage up to 6' (1.83 m). Lift from the row and load them into the Bale Pro®.

Vertical Bale Lift

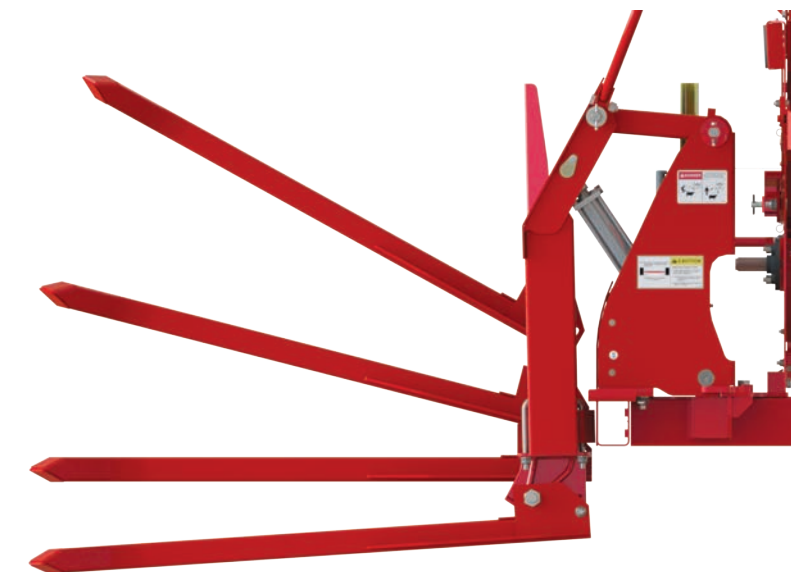
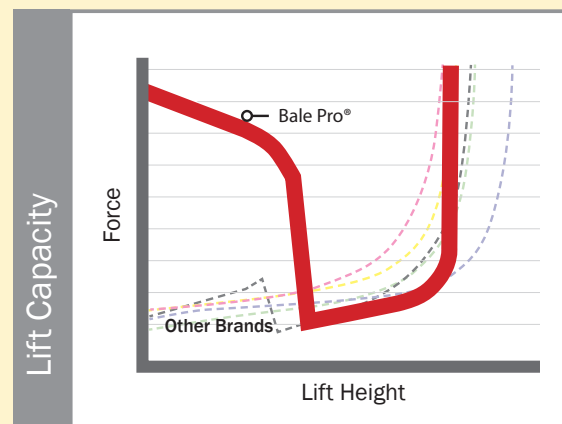
The Bale Pro® vertical bale lift has the highest breakout force of any bale processor on the market today. This force allows you to easily remove bales that are frozen to the ground. Vertical lift reduces the bale being lifted from "scrubbing" on the bales in the bale stack, as well as eliminates the need to clutch the tractor between bales.

The vertical bale lift is a 2 stage lift system where the first stage of the process lifts the bale straight off of the ground. Little space is required to accommodate this design. The competitors lack the 2 stage system. On competitors' systems, the bale rotation into the tub is started immediately resulting in limited force, as well as the need to pull ahead when loading a bale from a stack.

STAGE 1

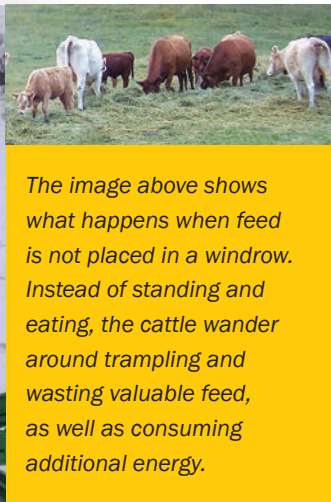


STAGE 2



1 the BASE BALE PRO®

BP 660 / BP 661 / BP 663 TOP GUN® / BP 965



The image above shows what happens when feed is not placed in a windrow. Instead of standing and eating, the cattle wander around trampling and wasting valuable feed, as well as consuming additional energy.

Feeding in the Field.

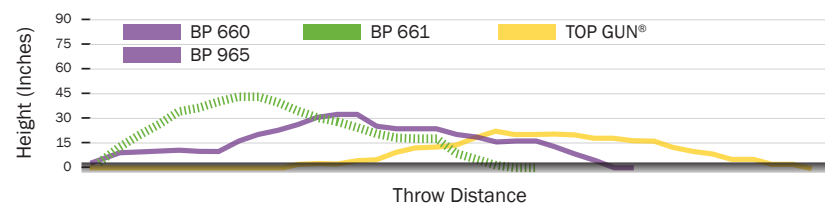
Feeding cattle in a bunk or a windrow in the field reduces corral cleaning costs in spring; as well, the nutrients from the manure benefit the field biology.

Hydraulic Discharge Door.

The hydraulically operated discharge door “contains” the outputted material in a high, uniform mound. This high mound reduces the amount of sorting the cattle will do, and also deters excess walking and wasting of valuable energy.



Bedding Profiles of Highline Bale Pros®



The graph on the left represents the bedding profiles of each of the different Highline® Bale Pros® in ideal conditions (*reaching maximum height and distance*). The results were taken while each Bale Pro® was stationary with each Bale Pro® processing one complete round bale. (*While feed and weather conditions can alter these measurements, the general pattern of each Bale Pro® remains consistent.*)

Efficient Processing

The Bale Pro® allows you to do double-duty; process one bale while carrying another on the forks. This saves time by allowing for continued operation before having to load again.

Loading bales is a simple one person operation from the comfort of the tractor cab.

Even Bedding

Create an even and lofty spread using a Highline® Bale Pro®. Quality bedding is produced while using less straw, saving on input costs.

2

the FEED CHOPPER™

BP 660 / BP 661 / BP 965



a

Feed Chopper™ Blades

The Feed Chopper™ is designed with 128 blades spinning at 3,000 rpm to provide a uniform blend of shorter cut lengths of roughage. The blades are sharpened on both sides; if a blade is worn out or damaged, simply flip the blade over for a sharpened edge.

b

Spring Tensioner

The spring tensioner has a wide setting range and this ensures adequate tension on the belt throughout its life. It is a maintenance free design, simply check the tension sight window to verify it's within operating conditions and go!

●

Additional Benefits

Finished feeding and need to bed? The Feed Chopper™ can be easily disengaged and your throw profile adjusted by simply removing the 2 hair pins on either side of the Feed Chopper™ and adjusting the angle of the deflector pan for bedding purposes.

The Feed Chopper™

The Feed Chopper™, exclusively from Highline®, is a secondary processing option to create shorter cut lengths. Rather than stationary knives that pulverize or drag leaves off of stems, the Highline® Feed Chopper™ truly slices through the hay creating an optimal consistency. The Feed Chopper™ is a great alternative to tub grinders.

► Improves Whole Plant Intake

Chopping reduces particle size of the whole plant improving intake of the stem portion. This is the part cows and sheep sort against. The efficiency of forage utilization improves, reducing the amount of forages for winter feeding the herd.

► Reduces Waste While Increasing Palatability

Cattle have preferences in what they eat. For example, longer coarse feed and low quality hay may have adequate nutritional value, but are not eaten, creating feed waste. By chopping low quality hay, intake of feed is increased, cattle will clean up the windrow or feed bunks.

► Minimizes Sorting

Consistent shorter cut length hay from the Feed Chopper™ ensures cattle do not sort different length material or grain. Now full feed utilization can occur while the cattle are eating the intended rations.

► Flexibility of Feed Types

The Highline® Feed Chopper™ excels at cutting a wide range of bales including silage, corn or old straw bales. Feed sources can include: Corn Stover, Canola Straw, Green Feed, Alfalfa and Silage Bales, processed to an appropriate blend of cut lengths.



The Feed Chopper™ can be added as a field installed option to the BP 660, BP 661 and BP 965 Bale Pros®.

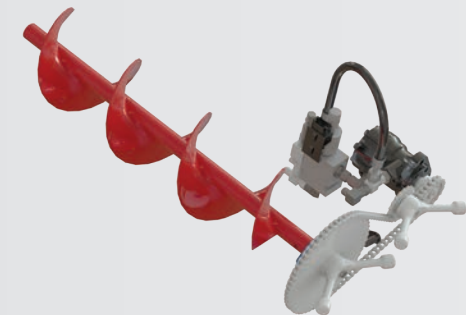
3 the GRAIN TANK

The Grain Tank is a variable speed hydraulic drive feed system that allows for even and consistent flow.

Unique to bale processing, the Highline® metering system ensures uniform mixes each and every time...regardless of feed conditions! Even distribution of grain or pellets within the hay is critical to ensure a good combined feed mix. Because cattle prefer grain to hay, they will sort out the grain and leave the hay if possible. The hydraulic drive feed system inserts the grain directly into the hay stream (as opposed to placing it on top) ensuring an optimal mix. Feeding grain is critically important to cattle in cold weather, backgrounding and during the final stages of gestation. Proper nutrition is required if the cattle body condition is to be maintained which relates directly to healthy calving and desired weight gains.

Auger

Hydraulic motor with ample power along with a proportional valve for precise rate control.



Axle

The speed sensor offsets in the rim keeping it away from mud & twine.



Hydraulic Drive Feed System

With no complex driveline, evenly distribute your grain or pellets.

BP 660 / BP 661 / BP 965

Grain Tank Features

Controlling Rations

It is vital to ensure that the amount of grain added into a ration is controlled. The amount of grain components in the ration needs to match up with the rumen's ability to utilize the grains. Increasing the grain components too quickly can result in acidosis and the animals going off feed. The Highline® hydraulic drive feed system precisely distributes the grain or pellets into the hay or straw windrow.

The hydraulic drive feed system now allows for stationary processing with precise grain addition – perfect for pre-processing for wagon or mixer feeding!



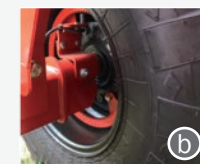
Control System Display

Easily set your rate for any feeding scenario. Enter the output you want, the calibration value, and start feeding.



Variable Speed Hydraulic Drive

Hydraulically driven metering can be instantly adjusted from the cab – no more distance meter or changing sprockets.



Electrical Ground Speed Sensing

No more complex auger driveline. Ground speed is determined from a speed sensor on the axle.



Gauge Windows

Easily view current grain levels through multiple gauge windows and confirm with the weight estimate on the display.



Tank Lid & Ladder

Large, 45 bushel (1587 L) tank with remote opener and a flip-down ladder to easily access the large 2' x 6' (.61 x 1.83 m) tank opening.

The Grain Tank can be added as a field installed option to the BP 660, BP 661 and BP 965 Bale Pros®.

TMR MIXER

models

4 MODELS - one to meet your needs.

Highline® Manufacturing is focused on ensuring the equipment we offer is part of a complete solution to feeding livestock in the most efficient and effective way possible.



Perfect for the smaller to mid-size farm

AMX 520T Mixer

PAGE 50



Low profile loading height

AMX 690T Mixer

PAGE 54



Simple. Reliable. Cost Effective

AMX 850T Mixer

PAGE 58



Allows one operator to perform all cattle feeding with a single machine

AMX 1000S Mixer

PAGE 62

AMX 520T MIXER



EASY to operate

The AMX 520T single screw mixer is perfect for the smaller to mid-size farm! With features like a wide 58" door and three conveyor options offered, this compact mixer would be an essential part of your feeding program.



AMX 520T Features

Single Vertical Mixing Screw

Screw comes standard with 10 knives installed.

Aggression Plates

To aid in a shorter cut length of material.

Hubs

Heavy duty 10 bolt hubs.

Axle and Tires

Single axle and high flotation tires (445/50R-22.5) are standard equipment to meet the extremes of North American weather.

Load Cell Configuration

Four load cells that measure the tub and conveyor to provide accurate measurements.

Unload Door

An industry leading 58" wide front unload door for fast and even feed delivery. The larger door means fewer tractor stops and an optimal clean out.

2 speed Gear Box (optional)

Manual shift or Power shift.

Durable A Frame

The continuous frame member eliminates weld stress points when operating in harsh environments.

Conveyors

Three different conveyor options available to meet your needs - Hydraulic Fold, Dogleg and Flat.

AMX 520T SPECIFICATIONS

Tub	
Tub Capacity / with 10" extension	451 ft ³ (12.7 m ³) / 520 ft ³ (14.7 m ³)
Number of Screws	1
Screw Speed	39 rpm @ 1000 PTO
Screw Thickness and Material	5/8" (15.9 mm) Steel
Tub Wall Thickness and Material	1/4" (6.4 mm) AR200 Steel
Tub Floor Thickness and Material	3/4" (19 mm) Steel
Aggression Plates	Yes
Weigh System	4 Point Weighing System
Unloading	
Conveyors	Chain with Steel Slats
Unload Height Flat	32" (813 mm)
Unload Height Dogleg	46" (1168 mm)
Unload Height Hydraulic	32" - 56" (813 mm - 1422 mm)
Unload Door Width	58" (1473 mm)

Hay Ring (Optional)



Drivetrain	
PTO Minimum HP	100 hp (75 kW)
PTO Drive	1 3/8" PTO Yoke, Cat 6 PTO, Shear Protection, 1000 rpm
Tires	Two 445/50-22.5
Suspension	Single Axle, HD 10 Bolt Hubs
Dimensions and Weight	
Unloaded Weight	10600 lb (4818 kg)
Max Payload	10040 lb at 20 mph (6382 kg at 32 kph)
Length	227" (5.77 m)
Height - Standard	117" (2.97 m)
Height - With 10" Extension	127" (3.23 m)
Width - Flat Conveyor	109" (2.77 m)
Wheel Track Width	100" (2.54 m)

All weights and transport dimensions are estimates and are subject to change. While every effort has been made to ensure that the information is accurate/current at the time of production, all specifications are subject to change.

If livestock is being fed, it is the operator's responsibility to ensure that the materials in the processed feed mix are suitable. Some of the wrapping material (twine, net wrap or other materials) may be discharged with the feed if the wrapping materials are not removed prior to processing.

For the latest product information, please visit: www.highlinemfg.com.

AMX 690T MIXER



LOW profile

The AMX 690T has a low profile loading height making it easier to load materials into the mixer. The low profile gives you the ability to easily maneuver through low barn door openings.

55



AMX 690T MIXER

AMX 690T Features

Twin Vertical Mixing Screws

Each screw comes standard with 10 knives installed.

Dividers

Prominent dividers in the tub means minimal mixing dead spots with exceptional clean out.

Hubs

Heavy duty 10 bolt hubs.

Axle and Tires

Single axle and high flotation tires (445/50R-22.5) are standard equipment to meet the extremes of North American weather. A tandem walking axle option is available.

Aggression Plates

To aid in a shorter cut length of material.

Conveyors

Three different conveyor options available to meet your needs - Hydraulic Fold, Dogleg and Flat.

Load Cell Configuration

Four load cells that measure the tub and conveyor to provide accurate measurements.

Unload Door

An industry leading 58" wide front unload door for fast and even feed delivery. The larger door means fewer tractor stops and an optimal clean out.

2 speed Gear Box (optional)

Manual shift or Power shift.

AMX 690T SPECIFICATIONS

Tub

Tub Capacity / with 6" extension	625 ft ³ (17.7 m ³) / 692 ft ³ (19.5 m ³)
Number of Screws	2
Screw Speed	33 rpm @ 1000 PTO
Screw Thickness and Material	5/8" (15.9 mm) Steel
Tub Wall Thickness and Material	1/4" (6.4 mm) AR200 Steel
Tub Floor Thickness and Material	5/8" (15.9 mm) Steel
Aggression Plates	Yes
Weigh System	4 Point Weighing System

Unloading

Conveyors	Chain with Steel Slats
Unload Height Flat	34" (864 mm)
Unload Height Dogleg	48" (1220 mm)
Unload Height Hydraulic	34" - 58" (864 mm - 1473 mm)
Unload Door Width	58" (1473 mm)

Hay Ring (Optional)

Drivetrain

PTO Minimum HP	120 hp (90 kW)
PTO Drive	1 3/8" PTO Yoke, Cat 6 PTO, Shear Protection, 1000 rpm
Tires - Single Axle	Two 445/50-22.5
Tires - Tandem Axle	Four 550/45-22.5 20 ply
Suspension	Single Axle, HD 10 Bolt Hubs or Tandem Walking Beam

Dimensions and Weight

Unloaded Weight	16680 lb (7582 kg)
Max Payload - Single or Tandem	19000 lb at 20 mph (8618 kg at 32 kph)
Length	316" (8.03 m)
Height - Standard	103" (2.62 m)
Height - With 6" Extension	109" (2.77 m)
Width - Flat Conveyor	109" (2.77 m)
Wheel Track Width	102" (2.59 m)

All weights and transport dimensions are estimates and are subject to change. While every effort has been made to ensure that the information is accurate/current at the time of production, all specifications are subject to change.

If livestock is being fed, it is the operator's responsibility to ensure that the materials in the processed feed mix are suitable. Some of the wrapping material (twine, net wrap or other materials) may be discharged with the feed if the wrapping materials are not removed prior to processing.

For the latest product information, please visit: www.highlinemfg.com.

AMX 850T MIXER



SIMPLE. RELIABLE. and cost effective

Highline® Manufacturing is focused on ensuring the equipment we offer is part of a complete solution to feeding livestock in the most efficient and effective way possible. The AccuMix™ AMX 850T towed feed mixer is another tool in our lineup that is simple, reliable and cost effective.



AMX 850T Features

Twin Vertical Mixing Screws

Each screw comes standard with 10 knives installed.

Dividers

Prominent dividers in the tub means minimal mixing dead spots with exceptional clean out.

Hubs

Heavy duty 10 bolt hubs.

Axles and Tires

Dual axles and high flotation tires (550/45-22.5 20 ply) are standard equipment to meet the extremes of North American weather. A single axle option is available.

Aggression Plates

To aid in a shorter cut length of material.

Conveyors

Three different conveyor options available to meet your needs - Hydraulic Fold, Dogleg and Flat.

Load Cell Configuration

Four load cells that measure the tub and conveyor to provide accurate measurements.

Unload Door

An industry leading 58" wide front unload door for fast and even feed delivery. The larger door means fewer tractor stops and an optimal clean out.

Mud Flaps (Optional on the 850T, 690T and 520T models)

To prevent material throw from the tractor tires onto the front unload conveyor.

2 speed Gear Box (optional)

Manual shift or Power shift.

AMX 850T SPECIFICATIONS

Tub

Tub Capacity / with 10" extension	745 ft ³ (21 m ³) / 850 ft ³ (24 m ³)
Number of Screws	2
Screw Speed	33 rpm @ 1000 PTO
Screw Thickness and Material	5/8" (15.9 mm) Steel
Tub Wall Thickness and Material	1/4" (6.4 mm) AR200 Steel
Tub Floor Thickness and Material	3/4" (19 mm) Steel
Aggression Plates	Yes
Weigh System	4 Point Weighing System

Unloading

Conveyors	Chain with Steel Slats
Unload Height Flat	36" (914 mm)
Unload Height Dogleg	50" (1270 mm)
Unload Height Hydraulic	36" - 60" (914 m - 1524 mm)
Unload Door Width	58" (1473 mm)

Hay Ring (Optional)

Drivetrain

PTO Minimum HP	150 hp (112 kW)
PTO Drive	1 3/8" PTO Yoke, Cat 6 PTO, Shear Protection, 1000 rpm
Tires - Single Axle	Two 445/50-22.5
Tires - Tandem Axle	Four 550/45-22.5 20 ply
Suspension	Single Axle, HD 10 Bolt Hubs or Tandem Walking Beam

Dimensions and Weight

Unloaded Weight	20200 lb (9182 kg)
Max Payload - Single Axle	17000 lb at 20 mph (7711 kg at 32 kph) 24000 lb at 7 mph (10886 kg at 11 kph)
Max Payload - Tandem Axle	24000 lb at 20 mph (10886 kg at 32 kph)
Length	316" (8.03 m)
Height - Standard	114" (2.90 m)
Height - With 10" Extension	124" (3.15 m)
Width - Flat Conveyor	109" (2.77 m)
Wheel Track Width	107" (2.72 m)

All weights and transport dimensions are estimates and are subject to change. While every effort has been made to ensure that the information is accurate/current at the time of production, all specifications are subject to change.

If livestock is being fed, it is the operator's responsibility to ensure that the materials in the processed feed mix are suitable. Some of the wrapping material (twine, net wrap or other materials) may be discharged with the feed if the wrapping materials are not removed prior to processing.

For the latest product information, please visit: www.highlinemfg.com.

AMX 1000S MIXER



TOUGH. ACCURATE. and reliable

The AccuMix™ model AMX 1000S Self Loading Self Propelled Feed Mixer allows one operator to perform all cattle feeding with a single machine, without leaving the seat. It is the only North American designed and manufactured machine of its kind.



AMX 1000s Features

Engine

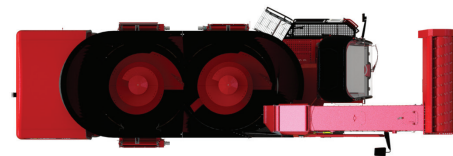
The Cummins B6.7 six cylinder diesel engine delivers 310 HP, offering the highest torque in the industry.

Sliding rear engine cover provides quick and easy hassle-free access for service.



Drive

Built for Here™, the AMX 1000S boasts aggressive high-flotation tires, fully hydrostatic AWD, leaf-spring suspension for a comfortable ride, three steering modes for easy maneuvering, and two operating modes - work and travel.



The Loading Arm

The self-loading arm option allows for a single operator to do all the feeding with one machine.



Hydraulics

Highline® uses proven brand name hydraulic pumps, motors and valves for ultimate reliability.

Tub

The mixing tub contains two hydraulically driven vertical screws, with three user-customized speeds, from 1-50 rpm.

Milling Head

Load your feed quickly and efficiently into the tub. The milling head speed is adjustable from 0 to 600 rpm.



Cab With A View!

The spacious cab offers air ride, heated seats, heated front windshield, auxiliary diesel heater, sun shade, a buddy seat, standard scale head with Bluetooth capability and heated mirrors.

All that with an amazing view!



Controls

Touchscreen display and ergonomic joystick allows the operator to easily control the functions of the machine.



Cab Access

The stairs extend out when the park brake is applied and fold away when brake is disengaged. This feature allows for improved access and safety to the cab area, in addition to narrower machine width.



Side Discharge

Standard front LHS conveyor OR drop-chute and optional rear conveyor OR drop-chute (LHS or RHS).





AMX 1000S SPECIFICATIONS

Tub

Tub Capacity	1000 ft ³ (28.3 m ³)
Screw Speed	3 Adjustable Presets, Range 1-50 rpm
Screw Thickness and Material	5⁄8" (15.9 mm) 44W Steel
Tub Wall Thickness and Material	¼" (6.4 mm) AR200 Steel
Tub Floor Thickness and Material	¾" (19 mm) 44W Steel

Engine

Engine	Cummins B6.7 Six Cylinder Diesel - Tier 4 Final
Engine Power	310 HP (232 kW)

Loading Arm

Milling Head Power	150 HP (112 kW)
Milling Head Speed	Variable 0-600 rpm
Milling Head Width	92" (2.34 m)
Max. Load Height	260" (6.6 m)

Unloading

Conveyors	Chain with Steel Slats
Positions - Standard	Standard front LHS conveyor OR drop-chute
Positions - Optional	Optional rear conveyor OR drop-chute (LHS or RHS)
Maximum Feedout Height	42" (1.06 m)

Cab and Cooling Features

Engine Cooler	Flexxaire Auto Reversing Fan
Hydraulic Cooler	Hydac Cooler with Auto Reversing Fan
Cameras	Back up, Tub and Right Side View (Optional 360° Birds-eye View)
Mirrors	Heated and Motorized

Seat	Adjustable Air-ride
Climate	Auto Heat, A/C and Diesel Cab Heater with Auto-start Timer)
Electrical System	12V
Drivetrain	
Drive Modes	Work (4 Adjustable Speed Ranges - max 25 km/h) and Travel (max 40 km/h)
Speed Ranges	4 in Work Mode
Max. Speed	25 mph (40 km/h)
Transmission	Full Hydrostatic (AWD)
Tires	600/55R26.5 - 70 psi (483 kpa)
Suspension	Mechanical - Leaf Springs & Stabilizer Bars
Steering	Front, Circle and Crab

Dimensions and Weight

Unloaded Weight with Arm	46000 lb (20909 kg)
Unloaded Weight without Arm	40000 lb (18182 kg)
Max Payload	26000 lb (11793 kg)
Length - With Loading Arm	478" (12.14 m)
Length - Without Loading Arm	380" (9.65 m)
Height - Top of Cab Antenna	137" (3.47 m)
Width - LHS Conveyor Only (Up/Down)	132" (3.35 m) / 141" (3.58 m)
Width - Conveyor both sides (Up/Down)	138" (3.50 m) / 171" (4.34 m)
Width - LHS Drop Chute Only (Up/Down)	126" (3.20 m) / 126" (3.20 m)
Width - Drop Chute Both Sides (Up/Down)	127" (3.22 m) / 133" (3.37 m)
Wheel Base	275" (6.99 m)
Ground Clearance	19" (.48 m)

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Printed in Canada - 04.24



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