

2100 Series

HESSSTION
by MASSEY FERGUSON

Large Square Balers

MASSEY FERGUSON



Often copied but
never surpassed.

Welcome to our 2100 Series brochure.

We realize that a lot of things have changed in the 30-plus years since Hesston® introduced the world's first large square baler. For one, there are a lot more models and brands from which to choose – some designed using concepts that Hesston initially developed and patented years ago. At the same time, those same manufacturers have come up with their own modifications that they tout as being better or more advanced.

However, Hesston engineers have been studying and testing different drive systems for more than 30 years. We've also invested time in the field talking to professionals who rely on uptime and reliability for their livelihood. Believe us when we say that if there were something better than our efficient and easy-to-maintain chain drive system, we would be using it!

As the fourth generation of large square balers, the Hesston 2100 Series balers by Massey Ferguson® are the most advanced, most reliable and most productive balers ever built.

So allow us to say “thank you” for giving us a few minutes to prove it.

I am the frontier. And the dust bowl. And abundant waves of grain.

I am six generations of farmers, looking forward to sunrise.

And six generations, working into the night.

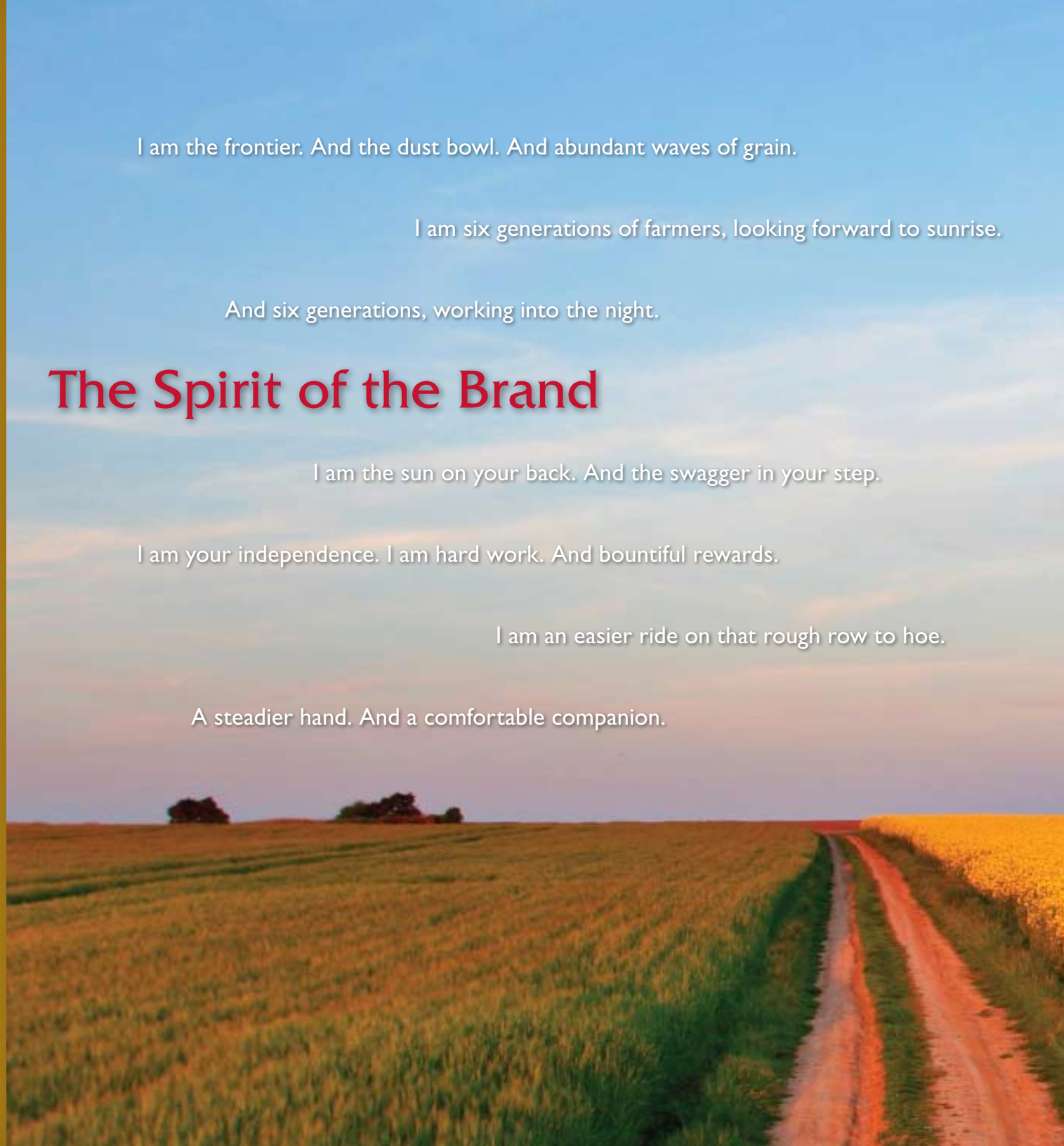
The Spirit of the Brand

I am the sun on your back. And the swagger in your step.

I am your independence. I am hard work. And bountiful rewards.

I am an easier ride on that rough row to hoe.

A steadier hand. And a comfortable companion.



I am resolute. Resourceful. Inventive. And honest.

I understand your dreams. And your realities.

I am the next chore. The next crop. The next harvest. The next opportunity.

I am your tractor. Your tool. Your edge.

I am your strong right hand.

I am Massey Ferguson.

The heart of the farm. And the joy in the work.



Once a pioneer,
always a pioneer.

Daniel Massey was a family man, working man, businessman, inventor, tradesman, manager, entrepreneur and genius. In other words, he was a farmer. And since Massey Ferguson began over 160 years ago, farmers have been our only reason for being.

We've continued to grow – in fact there are more Massey Ferguson tractors on the job worldwide than any other brand – but we've never lost our focus. With each new style, each new innovation, our one and only motivation is to provide what farmers need. And what farmers want.

Today more than ever, we're determined to prove that the heart of the original Massey Ferguson brand still beats under the shiny new exteriors of every model we make.

"Beauty in engineering is that which is simple, has no superfluous parts and which answers exactly its purpose."

–Harry Ferguson



1847
MASSEY MFG. COMPANY



It was 1847 when Daniel Massey began what would become Massey Ferguson – the same year Thomas Edison, Joseph Pulitzer and Jesse James were born.

1891

Canada's top two farm equipment companies merged in 1891 to form Massey-Harris Limited.

1926

In 1926, Harry Ferguson patented the 3-point hitch. In various forms, it is still used on virtually all of our competitors' tractors today.



Henry Ford and Harry Ferguson entered into partnership in 1938 and Massey Harris introduced the first commercially available self-propelled combine.

1938

Nobody knows hay like
HESSTON

Now part of the Massey Ferguson family, the Hesston manufacturing Company was founded in 1947.

1947

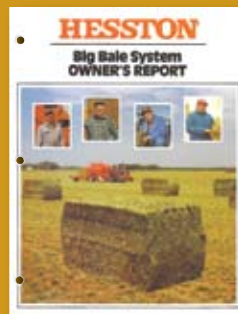
1962

Massey Ferguson became the world's best-selling tractor brand in 1962.



1978

The Hesston Model 4800 large square baler, the first of its kind in the world to produce 4 x 4-foot square bales, introduced.



Hesston hay and forage products adopt Massey Ferguson red paint to create a consistent point of connection with AGCO products and owners worldwide.

1991

Hesston expands large baler line with Model 4750, designed to produce 3 x 3 bales.

2009



BUILT WITH PRIDE IN HESSTON, KANSAS

2008

Hesston celebrates 30 years of large square baler production – taking a machine that critics said “couldn’t be built” to a full line marketed throughout the world.



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The answer to all your hay-handling needs.

It's easy to see why large square bales have become the preferred choice of dairies, livestock operations and commercial hay producers. Almost as soon as the original Hesston Model 4800 was introduced in 1978, producers recognized that large square bales represented the best solution for long-distance transportation. That fact hasn't changed, even with today's fourth generation Hesston 2100 Series large square balers by Massey Ferguson.

Easily and tightly stacked on a semi-trailer, each large square bale can take the place of 20 to 40 conventional rectangular bales and pack 18 to 30 pounds of hay per cubic foot into one convenient package.

Hesston 2100 Series large square balers are also the least labor intensive package available, whether you're loading them or feeding them. In fact, they can be easily handled with the same tractor and loader you'd typically use for round bales. And with three available models and bale sizes within the series, there's a package that's just right for your operation.

Cutter models add versatility.

For denser bales that are even easier to feed and mix in rations, Massey Ferguson offers all three Hesston 2100 Series large square balers in a "Cutter" version. In effect, a star wheel rotor between the pickup and the

packer fingers pulls the crop through a bank of knives for theoretical cuts as short as 1.9 inch (48 mm).

Since the cut material packs tighter, Cutter models also allow the operator to attain even greater bale density for heavier bales and higher efficiency.

The cutterbed can be adjusted to engage all knives, one-half of the knives, one-third of the knives or none of the knives. Cutting length can be adjusted to one of three settings without lowering the knife pan to remove knives.



MODEL	BALE WIDTH	BALE HEIGHT	BALE LENGTH (MAX.)	RECOMMENDED PTO HORSEPOWER	THE PERFECT FIT
2150	31.5" (800 mm)	34.4" (875 mm)	108" (2,743 mm)	150 + (112+ kW)	The 3 x 3 bale produced by the Hesston 2150 make this model ideal for small to medium-sized dairy and livestock operators who want a high-capacity machine, but prefer a smaller bale that's easier to handle.
2170	47.2" (1,200 mm)	34.4" (875 mm)	108" (2,743mm)	165 + (123+ kW)	With its 3 x 4 bale size, the Hesston 2170 was designed for custom hay operators and commercial beef and dairy farmers who prefer the wide bale size but desire a bale that's more compact in height – which proves to be a benefit in certain storage and trucking situations.
2190	47.2" (1,200 mm)	50" (1275 mm)	108" (2,743 mm)	180 + (134+ kW)	The king of large square balers, the Hesston 2190 baler, which produces solid 4 x 4 bales that weigh up to a ton each, is still the preferred option for commercial operations and custom hay producers who deal in volume and desire to move the most amount of hay in the least amount of time.



2150



2170



2190

See complete specs on page 17.



There's a Hesston 2100 Series baler that's just right for every need, no matter how the bales are handled, hauled or fed. All three bale sizes easily stack for a full load.

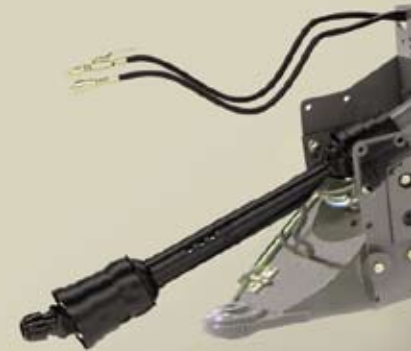
Built for unexcelled performance.

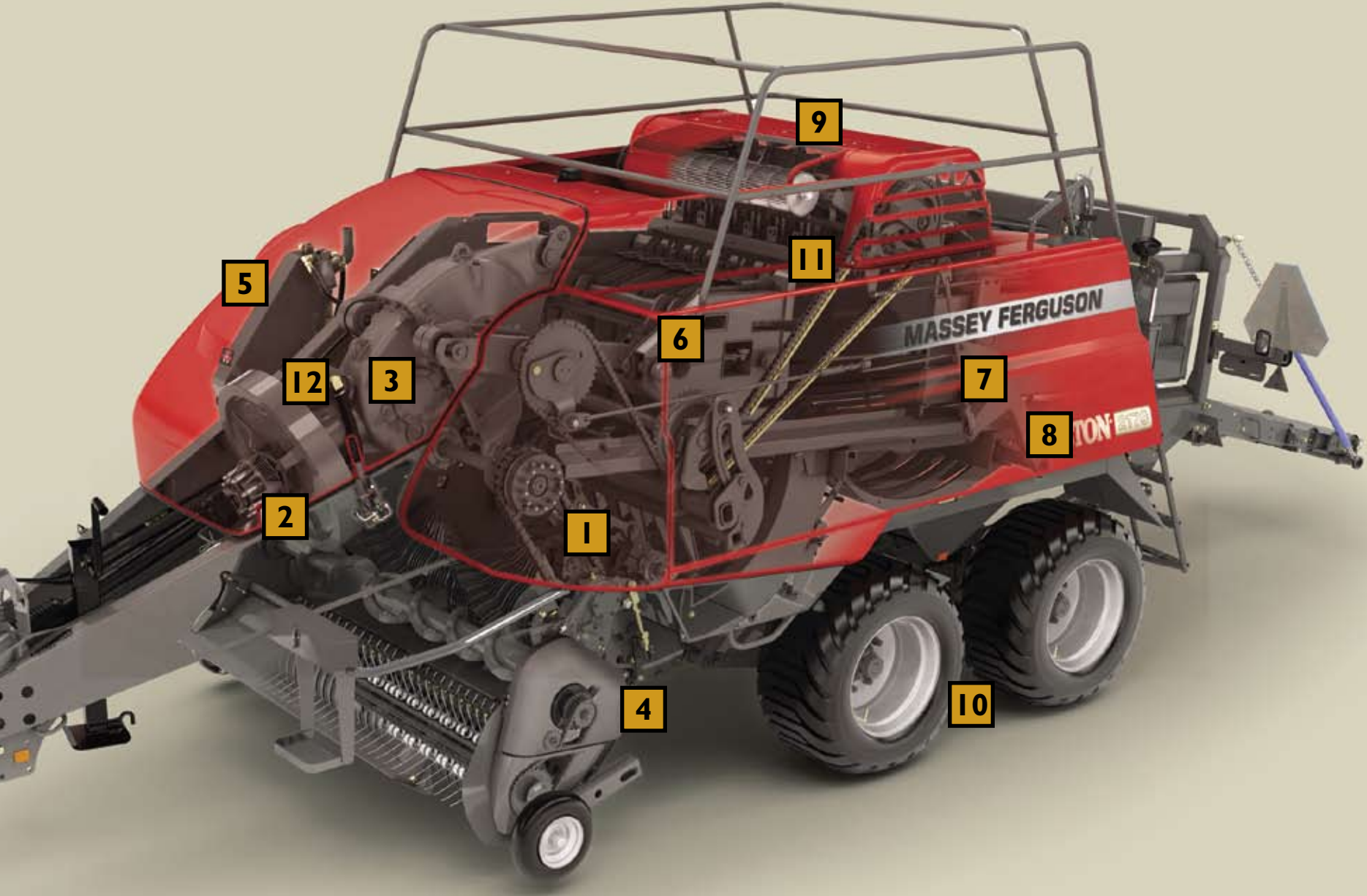
Like any piece of harvesting equipment, a large square baler can only turn a profit when it's performing at peak productivity. Fortunately, every aspect of the Hesston 2100 Series large square balers by Massey Ferguson was designed to make or save you money.

HESSTON
by **MASSEY FERGUSON**

In 1978, Hesston introduced the revolutionary 4x4 square baler, providing commercial and large-acreage hay producers a new baling option. In 2006, Massey Ferguson and Hesston joined forces to continue meeting the needs of hay producers like you.

1. Simple, reliable low-maintenance chain drives ensure proper timing and simplify maintenance.
2. The flywheel slip clutch now features five discs for even greater drive protection.
3. All three baler models feature a double reduction gearbox specifically designed for that model.
4. Torsion bar flotation supports the weight of an 89-inch (2,260 mm) pickup, which features a center bulkhead and dual cam tracks for smooth action.
5. All Hesston 2100 Series models feature on-board hydraulics for easier hook-up. The system also eliminates the variables in the tractor hydraulic systems that can affect baler performance.
6. True bale density is measured through load cells on the plunger connecting rods rather than gearbox deflection.
7. The twine boxes on all models hold 30 balls of twine at a 30-degree angle for easier loading and increased capacity.
8. Side panels are sealed to reduce trash build-up while a mesh screen over the twine box prevents twine from unspooling.
9. A hydraulically driven, transverse-impeller knotter fan, powered by the on-board hydraulic system, helps keep the knotters free of debris.
10. Hydraulic brakes are available as an option on both single and dual axles.
11. Needle brushes are standard on all three models to clean the needles before they enter the knotter area.
12. All models use an 8 gallons-per-minute (30 lpm) hydraulic pump, driven directly off the gearbox, to power the bale density system, knotter fan and accumulator functions.





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MASSEY FERGUSON

HESSTON

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7499

First with a better way.

You can expect dense, square-shouldered bales every time – no matter what the crop or how heavy the windrow – with a Hesston 2100 Series large balers by Massey Ferguson. From day one, we've used a pre-compression chamber to pre-form each flake before it's moved to the plunger to form the bale. Since Hesston balers always make the flake as a separate process, you never have to be concerned with windrow size or baling speed.

We even fitted the pre-compression chamber with a polyethylene panel to reduce loading on the stuffer and lower power requirements, especially when baling silage crops.

Automatic bale density control

An electronic density control system measures the resistance of the bale moving through the bale chamber and automatically adjusts a pair of double-

acting hydraulic cylinders that apply pressure to the sides and top of the bale chamber to maintain the desired bale density – regardless of crop and field conditions. Since the plunger load is measured by both plunger arms, the system also alerts the operator of the need to fill the right or left side of the chamber.

Parts commonality helps reduce costs

A committed focus on parts commonality within the Hesston 2100 Series family not only reduces manufacturing costs but saves you money on repair expenses. All models, for example, share a common pickup assembly, as well as a greater number of frame and drive components. We even used the same slip clutch discs on the pickup clutch and the main driveline clutch so you and your dealer have fewer part numbers to worry about.

Hesston patented the double-knotter system, which ties two knots per bale while keeping a constant 15 pounds of tension on the twine. The result is solid bales time after time, regardless of bale density and fewer miss-ties.



Brains and brawn.

Hesston 2100 Series large square balers are not only built tough, they're equipped with a brain. In fact, they lead the industry with ISOBUS compliant technology. The benefit? The baler can be plugged directly to any tractor equipped with an ISO-compliant virtual monitor – eliminating the need to purchase or install another monitor for the baler.


For tractors without a virtual monitor, the Hesston 2100 Series uses the customer's choice of the AGCO GTA Console I or Console II color monitor to provide all the information the operator needs at a glance. With the touch of a button, the operator can monitor strokes per flake, flakes per bale, set and measured load, bale chamber pressure, slip, clutch slip bale count and up to 25 additional baler and accumulator functions.

The system can also log up to four years worth of records, 20 customer records and 99 job records, for a total of 123 bale count records. On Console II equipped models, data can then be transferred to a PC computer where it can be used to make management decisions, manage records and create customer invoices.

More bales per hour.

No matter the baler or the bale size, it's capacity and productivity that gets the job done. Hesston 2100 Series large square balers by Massey Ferguson have greater capacity than any balers on the market. Consider a few of the other advantages that the Hesston 2100 Series balers have over the competition:

- **Increased flywheel weight** delivers greater plunger inertia and greater capacity.
- **Higher gearbox speeds** on all models translates into higher capacity and better performance.
- **A lower profile, four-bar pickup** retains more nutrient-rich leaves.
- **A torsion bar pickup flotation system** reduces bouncing for maximum crop pickup.
- **The solid windguard** provides better crop control in all wind conditions and helps to compress the crop mat before it enters the pre-compression chamber.
- **Upper and lower centering augers** feed crop material to the pre-compression chamber for faster baling without sacrificing the Hesston reputation for solid, square-shouldered bales. Cutter balers feature a full length top auger to help force crop into the rotor.



Tandem axles are offered on all three Hesston 2100 Series models for improved flotation and increased field speed. Rear axles automatically steer to reduce field scalping and can be locked while roading; and both axles feature independent leaf springs for a more responsive ride and reduced pickup bounce.

More time in the field.

When it's time to bale, there isn't time for maintenance and adjustments. Lost time often means lost money. That's why Hesston 2100 Series balers were designed for minimal servicing and quick and easy maintenance.

Not only are Hesston 2100 Series balers simpler in design than competing models, they're even more maintenance-free than previous Hesston machines.

An increase in the number of sealed bearings, for example, means fewer service points and a 50-hour service interval. We've also increased the number of tapered roller bearings, which contributes to less service and increased wear life.

Even if something should go wrong or a shear bolt breaks, Hesston 2100 Series large square balers are easier to put back in time. More important, these balers are the easiest in the industry to keep in time.



Autolube knotter lubrication

The knotters are constantly lubricated by an oil-based Autolube system that can be filled from ground level to reduce maintenance time. The lubrication cycle is fully automatic with frequency controlled by the GTA monitor.



Quick and easy service access

One-piece side shields, supported by gas struts, allow for easy access to the twine box and drive systems. The shields seal when closed to reduce crop build-up.



Multiple service lights

Six halogen service lamps plus three switched work lamps allow the operator greater convenience when working at night by illuminating access ladders, twine boxes, service areas and knotter assemblies. There's even a work light under the baler, should it be needed.

Invest wisely.

Massey Ferguson has built a worldwide following by building machines that last. We go the extra mile right from the start, so our balers go the extra mile for years to come. Maybe that's why Hesston large square balers have been the market leader for the past three decades.

Best of all if you ever decide to trade in your Hesston 2100 Series baler, the resale values are the highest in the industry. That's because they come with a built-in reputation for durability. And they come from a brand that has served farmers for more than 50 years.

LOW-RATE, FLEXIBLE FINANCING

Your Massey Ferguson Dealer and AGCO Finance offer attractive financing programs to make sure a new Hesston 2100 Series baler will fit your operating budget. Extremely competitive rates and terms make it easy to purchase, lease or rent.



We're always at your service.

If you're like most farmers, when you find that perfect piece of equipment, it becomes almost like part of your family. And when you buy a Hesston 2100 Series baler by Massey Ferguson, you instantly become part of ours.

Our network of dealers understands what owning a commercial-grade baler really means. They'll advise and support you through the selection process, the buying process, through operation, maintenance and beyond. Equally important, they realize that you have to be ready to bale 24 hours a day, seven days a week.

Because our dealers share your passion for farming, they're happy to share their knowledge to keep you working happy, no matter the hour. After all, you're family. And there's nothing we wouldn't do for family.

All-inclusive warranty

Even our warranty is high performance. From hitch pin to bale chute, it provides one-year/unlimited hour all-inclusive coverage on all other parts and labor. Best of all, it's backed by dealers who understand how to help you make the most of it.

Quality parts

Genuine Massey Ferguson replacement parts are manufactured to the same high standards of quality and dependability as the original part used on the assembly line. Using original equipment parts will help keep your Hesston 2100 Series baler running like new.



At Massey Ferguson, you're family. And there's nothing we wouldn't do for family.

Questions? Go to masseyferguson.com

Our website opens the door to all sorts of technical information and product specifications. If you can't find what you're looking for, click on "contact us" and we'll provide you with access to folks who can get you all the answers.

AGCO Answers
(877) 525-4384

agcoanswers@agcocorp.com
At AGCO, customer care isn't just a department. It's a commitment. Contact us with your questions. We'll do our best to answer them promptly, or put you in touch with someone who can.



The doors are open
at ShopMassey.com

You'll find all sorts of ways to live Massey Ferguson from the latest in wearables to gifts for the entire family. And some good old-fashioned bargains, too.



The Massey Ferguson *Farm Life* magazine is our exclusive publication that offers news, interviews and insights into all the joys – and challenges – of farming.

Join the clubs.

Ferguson Enthusiasts of North America has grown from just 59 members in 2001 to almost 600 members today. They publish a newsletter five times a year and hold annual get-togethers at well-known tractor shows. Join today, visit fergusonenthusiasts.com.

The Ferguson Club is an international, independent member's club established in 1986 to promote and disseminate information and interest in the work of the late Harry Ferguson, Ferguson products and in particular, the "Ferguson System." fergusonclub.com

The Friends of Ferguson Heritage Ltd. exists to encourage and assist enthusiasts in their interest in the engineering achievements of the late Harry Ferguson. fofh.co.uk

Add your choice of bale-handling options.



Large bale accumulators

Save time and field travel, while reducing compaction with a Hesston AC Series big bale accumulator by Massey Ferguson. The Model AC20 was designed specifically for the Hesston 2150 baler, while the Model AC25 fits both the Hesston 2170 and 2190.

Both accumulator models allow the baler operator to collect and group bales anywhere in the field. They also boast the following productivity features that push efficiency to new levels:

- **A bale shift bar** automatically or manually moves bales right or left to maintain a balanced load.
- **Dual caster wheels** provide extra flotation and allow the accumulator to make sharp turns in the field, without causing field damage.
- **A centralized lubrication system**, which includes a grease divider valve, allows the operator to lubricate 12 different points from one location.
- **The side extensions** on the AC20 can be folded for narrower transport width or for use as a three-bale accumulator when baling in tight areas.



Hay preservative tank

The bale chamber frame is already equipped with mounting points for the AGCO Harvest Tec hay preservative system, which includes a 100-gallon tank, in-cab monitor and automatic applicator.



A choice of bale chutes

Choose the standard bale chute to gently drop bales to the ground when an accumulator is not used. Or, for the versatility to handle both dry hay and silage bales, select the roller bale chute, which raises and lowers hydraulically.

Bale ejector kit

Standard on the Hesston 2150, 2170 and the 2190 Cutter baler, the bale ejector allows the operator to clear the bale chamber at the end of the field or the end of the day. The bale ejector is particularly valuable when baling silage or high-moisture crops.



A new bale tagger, available through AGCO Parts, allows the operator to apply a tag to each bale that records a field name, bale weight, high and average moisture, date and time bale was made and amount of preservative applied.

BALER MODEL	2150	2170	2190
Bale Size			
Width: in. (mm)	31.5 (800)	47.2 (1,200)	47.2 (1,200)
Height: in. (mm)	34.4 (875)	34.4 (875)	50 (1,275)
Length: in. (mm)	Up to 108 (2,743)	Up to 108 (2,743)	Up to 108 (2,743)
Dimensions & Weight			
Overall width w/ flotation tires: in. (mm)	118 (2,994)	129.1 (3,280)	129.1 (3,280)
Overall length: in. (mm)			
Without bale chute	301 (7,650)	301 (7,650)	301 (7,650)
With bale chute	370 (9,400)	370 (9,400)	370 (9,400)
Overall height: in. (mm)			
Top of knotter shielding	111.6 (2,835)	111.6 (2,835)	126.6 (3,215)
Top of hand railing	130.3 (3,310)	130.3 (3,310)	141 (3,582)
Weight: lbs. (kgs)			
Baler w/ single axle	15,080 (6,840)	18,700 (8,482)	21,919 (9,942)
Baler w/ tandem axle	16,400 (7,440)	20,057 (9,098)	22,741 (10,315)
Main Drive			
Driveline category	ASABE 6		
Protection	Overrunning, slip clutch and shear bolt		
Gearbox	Enclosed double reduction		
Pickup			
Width			
Tine to tine: in. (mm)	80.6 (2,046)		
Effective width: in. (mm)	89.0 (2,260)		
Overall width: in. (mm)	117.9 (2,994)		
Number of tines	128		
Tine spacing: in. (mm)	2.6 (66)		
Protection	Slip and overrunning clutches		
Pickup lift	Hydraulic cylinder		
Feeding System			
Packers	Fork type w/ 6 hard surfaced tines		
Protection	Splined slip clutch		
Stuffer	Fork type		
Protection	Shear bolt		
Plunger			
Speed: strokes / min.	47	47	33
Length of stroke: in. (mm)	29.1 (740)	29.1 (740)	32.8 (820)
Mounting	4 tapered roller bearings (sealed) 2 ball bearing rollers (sealed)		

BALER MODEL	2150	2170	2190
Tying Mechanism			
Knotters	Four double knot type	Six double knot type	Six double knot type
Twine storage capacity	30 balls	30 balls	30 balls
Twine type	High quality split film - polypropylene or sisal		
Tires			
Single axle	600 / 50 x 22.5	700 / 50 x 22.5	28L x 26
Tandem axle	500 / 50 x 17	500 / 45 x 22.5	500 / 45 x 22.5
Lights			
	Nine working lights; amber flashing warning and turn signals; taillights		
Control & Monitoring System			
Type	Console I or Touchscreen Console II		
Baler controls	Plunger load to control bale density, alarm volume, reset bale counters		
Functions monitored	Plunger load, bale chamber tension pressure, 123 field bale counters, flakes / bale, driving meter, stuffer cycles, knotter and needle performance, feeder performance, stuffer shearbolt, gearbox overheating and automatic electronic system performance checks		
Options			
Cutter	Factory option	Factory option	Factory option
Bale ejector	Standard	Standard	Standard w/ Cutter
Knотter blower	Standard	Standard	Standard
Accumulator (optional)			
Type	5 bale	3 bale	3 bale
Tractor Requirements			
Horsepower			
Minimum: hp. (kW)	120 (90)	135 (101)	150 (112)
Recommended: hp. (kW)	150+ (112+)	165+ (123)	180+ (134+)
Minimum w/ Cutter option: hp. (kW)	170 (127)	180 (134)	200 (149)
PTO rpm	1,000	1,000	1,000
Minimum tractor weight: lbs. (kgs)	21,140 (9,589)	21,140 (9,589)	21,140 (9,589)
Hydraulics	Two double acting remote valves	Two double acting remote valves	One double acting remote valve
Electrical system	12 volt DC		

Wisdom comes with age.



Our legacy may not be as old as the Grand Tetons, but we've certainly been around a while. After all, Daniel Massey started building farm machinery more than 160 years ago; Harry Ferguson invented his share of innovations in the last century, and Hesston has more than 30 years experience building large square balers. A company can gain a lot of wisdom in that amount of time.



Welcome
to the family.



MASSEY FERGUSON



Hesston 2100 Series Large Square Balers
masseyferguson.com



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