

Small Square Balers

1800 Series



MASSEY FERGUSON

# HESSTON *Series*

from MASSEY FERGUSON®

Two Great Names...

## Driving the **FUTURE** of Hay Production

Massey Ferguson® a world leader in tractor and harvesting equipment boasts a long tradition of high-quality products spanning nearly two centuries. Products such as the self-propelled combine, the first tractors with 3-point hitch and the famous Ferguson Hydraulic System are all a part of Massey Ferguson's legacy of leadership and rich heritage.

When it comes to designing and manufacturing high quality hay and forage products, Hesston® has led the way. It was Hesston that developed the first commercially produced self-propelled windrower in 1955, followed by the development of the first big baler in 1978. For more than 50 years, Hesston has dominated the industry and set the standard for product innovation and quality proving "Nobody knows hay like Hesston."

Today, two of the largest names in agriculture have joined forces to bring you a complete line of conventional and commercial hay equipment – the Hesston Series from Massey Ferguson. Featuring more than 40 different models, the Hesston Series now offers you the most innovative hay equipment in the industry, and a Massey Ferguson dealer who's ready to assist you with flexible financing, quality parts and a commitment to your total satisfaction.



# 1800 Series Small Square Balers



**Versatile Performance • Innovative Technology • Solid Reliability**

# Massey Ferguson® and Hesston® Series A MODEL To Fit EVERY BALING NEED

Whether you bale a few acres a year for your own herd, or put up thousands of bales annually in a commercial operation, you can always count on the proven performance of an 1800 Series square baler.

From the time hay enters the wide, low-profile pickup until it drops out the back as a finished bale, the crop follows a straight path. There are no right-angle turns, no cross-conveying mechanisms and no high pickup lifts to shake or tear valuable leaves from the stems. Instead, the crop is lifted about half as

high as on competitive models and fed straight into a prepacker chamber that actually preforms each flake before sweeping it straight into the bale chamber. There's nowhere for nutritious leaves to go but into the bale.

The preformed flake concept also ensures consistent bale density and uniform flake size bale after bale. Plus, nutritious leaves are distributed throughout the bale, not concentrated on the side or bottom of the bale. It all adds up to higher-quality bales that are easier to stack and easier to feed.



SERIES	MODEL	BALE SIZE	BALER WEIGHT	PTO HP	NO. OF KNOTTERS
Massey Ferguson®	<b>1835</b>	14" x 18" (356 x 457 mm)	2,700 lb. (1,224 kg)	30 (26 kW)	2
	<b>1837</b>	14" x 18" (356 x 457 mm)	3,050 lb. (1,384 kg)	35 (26 kW)	2
	<b>1839</b>	14" x 18" (356 x 457 mm)	3,300 lb. (1,497 kg)	35 (26 kW)	2
Hesston® Series	<b>1841</b>	16" x 18" (406 x 457 mm)	4,375 lb. (1,985 kg)	50 (37 kW)	2
	<b>1843N</b>	15.75" x 22" (400 x 559 mm)	8,000 lb. (3,632 kg)	N.A.	3
	<b>1843S</b>	15" x 22" (381 x 559 mm)	8,000 lb. (3,632 kg)	N.A.	3

### Model 1835 — “Just Right” For Any Operation

The Massey Ferguson 1835 model is designed for the hay producer or livestock owner who needs a strong, reliable baler for a minimal number of acres. The Model 1835 churns out 14 x 18-inch bales with a plunger speed of 92 strokes per minute. Yet, it's built tough enough to pull a loaded bale wagon over rolling terrain... an important factor when the bale thrower option is added. It's also loaded with features the competition still can't offer at this kind of price.

### Model 1837 — A Step Up In Performance

For the medium-sized operator who needs a little more capacity, Massey Ferguson offers the Model 1837 with its faster plunger speed and wider pickup. Its 42 double tines and 70.2-inch tine-to-tine pickup sweep in wider windrows and swaths without raking for less crop leaf loss.

Combine that with its short 21.7-inch plunger stroke and its 100 strokes-per-minute plunger speed and you have a machine that exemplifies productivity in any kind of crop.

### Model 1839 — Top-Of-The-Line In 14 x 18 Balers

For high-capacity baling and rugged reliability, you can't beat the Massey Ferguson Model 1839. Like the 1837, it features a 14 x 18-inch bale chamber and 100-spm plunger.

However, its commercial-grade construction also incorporates eight sealed ball-bearing plunger rollers, a six-ball twine box, 31 x 13.5-15, 8-ply tires, and a torque limiter on the pickup assembly. The 70.2-inch tine-to-tine pickup assembly also features 56 double tines on four tine bars for even cleaner crop pickup. Add up the numbers and you have a baler that's a perfect match for large farms and custom operators.

### Model 1841 — The New Name In Small Square Baling

When it comes to maximum productivity, there's a new name in town. It's the Hesston Series Model 1841 from Massey Ferguson. With its 16 x 18-inch bale size and 70.2-inch tine-to-tine pickup, the 1841 is the perfect machine for high-volume hay producers and custom operators who mechanically load and transport a lot of hay.

A total of 56 double tines on four tine bars sweep up the heaviest windrows without fear of damage, thanks to slip and over-running clutch protection. Other heavy-duty features include eight sealed plunger roller bearings, a number 80 packer drive chain, a six-ball twine box and 31 x 13.5-15 8-ply flotation tires. So don't hold back. The 1841 is built to handle it, day in and day out.



# STRAIGHT FACTS On The Benefits Of Our **CENTER LINE** Design

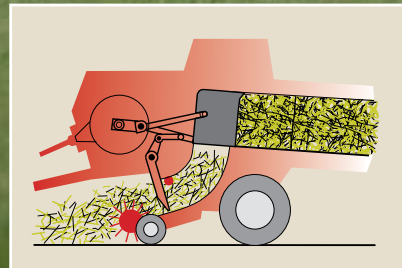
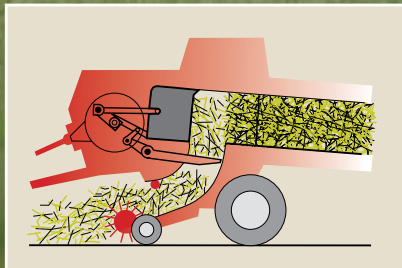


You don't have to be a rocket scientist to realize the benefits of Massey Ferguson's center-line baler design. All you have to do is compare it to the way a conventional baler operates.

On most competitive balers, the plunger has to form, cut and compress the hay that's side delivered into the bale chamber into an individual bale slice,

On an 1800 Series baler, these operations are evenly distributed between the pre-forming chamber, packer/stuffer and plunger, which helps minimize peak loading on the entire drive system.

Equally important, because each bale flake is pre-formed before it goes into the bale chamber, leaves are more evenly distributed throughout the bale and the same amount of crop is distributed to each side of the bale. The result is uniform bale density from top to bottom, side to side and end to end.



## Advantages Extend To Road And Field

The benefits of center-line design go far beyond better-shaped bales. Because field and road positions are one in the same, you save time moving between fields. It also means the baler and any wagon pulled behind it are towed in a straight line, for less twist or strain on the baler frame. Finally, it means the baler can adjust to ground contours faster and easier, since flotation tires and gauge wheels are of equal size on both sides of the machine.

- 1 The compact, low-profile design allows the operator to see behind the baler, which is especially important when using a bale thrower or towing a wagon.
- 2 A constant velocity driveline allows sharp turns without driveline chatter or vibration.
- 3 Centering augers help increase the capacity of the pickup and evenly distribute crop material to both sides of the packer/stuffer chute for uniform bales.
- 4 Every 1800 Series model is based on a high-strength steel mainframe, axles, hitch and welded box-beam construction.
- 5 The raised location of the bale chamber protects the needles from damage. Even in the down position, the needles are still above the axle.



### Load Wagons While You Bale

Cut your time and labor investment dramatically with a Massey Ferguson bale thrower. Available as an option on the 1835, 1837 and 1839, its self-contained hydraulic system requires the use of only one tractor remote for side-to-side direction control.

A variable speed hydraulic motor provides precise distance control, while a hydraulic cylinder provides equally accurate direction control. Together, they allow you to fill every load to capacity.

Adjustable belts feature a diamond-tread pattern for a firm grip on bales and uniform acceleration. Yet, they're positioned far enough back to let bales up to 36 inches long freely clear the tension rails. Since bales aren't "pulled" out of the chamber, there's little chance for the belts to burn or break twine or distort bale shape.

Don't worry if you change your plans, either. Simply open the chute at the bottom of the thrower assembly to drop bales on the ground.

# The **THREE-TWINE** Baler That's Already Winning The **WEST**

Looking for a high-capacity, three-twine baler that meets the existing handling and transportation needs of the western market? The Hesston Series from Massey Ferguson® offers, not one, but two unique choices. Select the Model 1843S for high-quality bale flakes and rock solid 15 x 22-inch bales that load and stack like bricks. Or, for higher capacity and bales that measure a slightly larger 15.75 x 22 inches, choose the 1843N. Both produce bales up to 52 inches long that weigh up to 180 pounds at normal baling moisture.

Both models are also equipped with a 67-horsepower, 4-cylinder Deutz air-cooled diesel engine that provides full power to the baler as well as the self-contained hydraulic system. As a result, you can use a small tractor for greater fuel savings, a low initial investment and less compaction.

Of course, like every Massey Ferguson square baler, the 1843S/1843N Hesston Series models feature an in-line design that allows the crop to move in a straight line from the pickup to the bale chute. It's a difference you'll see in every bale... and a distinction you'll appreciate when it's time to load the trucks.

A unique pivoting tongue on the 1843S/1843N allows you to make a choice. You can tow the baler directly behind the tractor and straddle the windrow for true in-line baling... or pivot the tongue to the offset position and pick up windrows off to the side. Either way, hay moves through the baler in a straight line. The in-line position also offers a narrower transport width than most competitors — only 8 feet, 6 inches — for safer roading and easier maneuvering.



## You're In Full Control

Mention the word "convenient" and you've just described the 1843S/1843N remote control and monitoring console. In addition to monitoring engine hours and the fuel tank level, the console offers remote control of:

- Engine start and stop functions
- Throttle settings
- Tongue swing operation
- Hydraulic pickup lift
- Machine operation via an electric clutch



#### Low Maintenance Power

The Deutz air-cooled engine is mounted low and toward the front of the baler for machine balance, easy maintenance access and clean air flow. Air cooling means you can forget about cooling problems and radiator maintenance, too.



#### Run All Day

A 29-gallon fuel tank carries enough diesel to bale all day without stopping to refuel. You won't have to stop to add twine, either. The easy access twine box, located on the side opposite the engine, holds 12 balls of sisal or plastic twine.



#### Consistent Bale Weight And Density

The hydraulic density control system automatically senses and adjusts bale density to produce bales that could be clones of each other in terms of weight and density. Bale density can be adjusted from the tractor cab, too, as crops and conditions change.



#### "TLC" For The Knotters

An automatic knotter lube system lubricates 18 critical bearing surfaces each time the knotters complete a tying cycle. A blower fan keeps trash buildup to a minimum for increased reliability and smoother operation. The split frame design makes service quicker and easier.

**SMALL RECTANGULAR TWO-TWINE BALERS**

<b>MODEL SPECIFICATIONS</b>	<b>1835</b>	<b>1837</b>	<b>1839</b>	<b>1841</b>
<b>Bale Size</b>				
Size of Chamber in. (mm)	14 x 18 (356 x 457)	14 x 18 (356 x 457)	14 x 18 (356 x 457)	16 x 18 (406 x 457)
Bale Length in. (mm)	12 to 52 (305 to 1,321)	12 to 52 (305 to 1,321)	12 x 52 (305 x 1,321)	12 to 52 (305 to 1,321)
<b>Dimensions and Weights</b>				
<b>Length</b>				
w/o Bale Chute in. (mm)	168 (4,267)	168 (4,267)	168 (4,267)	202 (5,121)
w/Bale Chute in. (mm)	204 (5,182)	204 (5,182)	204 (5,182)	244 (6,187)
w/Bale Thrower in. (mm)	240 (6,096)	240 (6,096)	240 (6,096)	N.A.
Width (Overall) in. (mm)	93 (2,362)	101 (2,565)	101 (2,565)	104 (2,652)
Height w/Shielding in. (mm)	65 (1,651)	65 (1,651)	65 (1,651)	66 (1,676)
Baler Weight, approximate lbs. (kg)	2,700 (1,224)	3,050 (1,384)	3,300 (1,497)	4375 (1,985)
<b>Tires</b>				
Flotation	9.5L x 14, 6 Ply	11L x 14, 6 Ply	31 x 13.5-15, 8 Ply	31x13.5-15, 8 Ply
<b>Pickup</b>				
<b>Width</b>				
Tine to Tine in. (mm)	54.6 (1,387)	89.1 (2,264)	70.2 (1,782)	70.2 (1,782)
Inside Panel to Panel in. (mm)	60.3 (1,532)	70.2 (1,782)	75.9 (1,928)	77.5 (1,968)
Outside Panel to Panel in. (mm)	73.5 (1,867)	75.9 (1,928)	89.1 (2,264)	91.2 (2,316)
Number of Tine Bars	3	3	4	4
Number of Tines	66	84	112	112
Augers in. (mm)	13 O.D. (330)	13 O.D. (330)	11 O.D. (280)	12.5 O.D. (318)
Protection	Belt Drive	Belt Drive	Overrunning Torque Limiter	Slip and Overrunning Clutch
Gauge Wheels	2 (One per Side)	2 (One Per Side)	2 (One per Side)	Two (One per Side)
<b>Feeding System</b>				
Stuffer	Crank Type w/4 Tines	Crank Type w/4 Tines	Crank Type w/4 Tines	Crank Type Cam Controlled w/3 Tines
Drive	No. 60 Chain	No. 60 Chain	No. 60HD Chain	No. 80 Chain
Protection	Shearbolt	Shearbolt	Shearbolt	Shearbolt
<b>Plunger</b>				
Speed	92 Strokes/min	100 Strokes/min	100 Strokes/min	100 Strokes/Min
Length of Stroke in. (mm)	21.65 (550)	21.7 (550)	21.7 (550)	23 (584)
Mounting	7 Sealed Ball Bearing Rollers	7 Sealed Ball Bearing Rollers	8 Sealed Ball Bearing Rollers	8 Sealed Ball Bearing Rollers
<b>Tying Mechanism</b>				
Type	Knotters	Knotters	Knotters	Knotters
Protection	Shearbolt	Shearbolt	Shearbolt	Shearbolt
Twine Container Capacity	4 Balls	4 Balls	6 Balls	6 Balls
<b>Tractor Requirements</b>				
Horsepower, Minimum hp (kW)	35 (26)	35 (26)	35 (26)	50 (37)
PTO Speed rpm	540	540	540	540
Hydraulics	None for Standard Baler	None for Standard Baler	None for Standard Baler	One Double Acting Remote Valve (For Hydraulic Pickup Lift)
<b>Optional Kits</b>				
	Bale Chute Bale Chute Extension Bale Chute Quarter Turn Wagon Hitch Kit Hydraulic Bale Tension Kit Hydraulic Pickup Lift Kit Field Light Kit Bale Thrower	Bale Chute Bale Chute Extension Bale Chute Quarter Turn Wagon Hitch Kit Hydraulic Bale Tension Kit Hydraulic Pickup Lift Kit Field Light Kit Bale Thrower	Bale Chute Bale Chute Extension Bale Chute Quarter Turn Wagon Hitch Kit Hydraulic Pickup Lift Kit Hydraulic Bale Tension Kit Field Light Kit Bale Thrower	Bale Chute Bale Chute Extension Bale Chute Quarter Turn Field Light Kit Knotted Lubrication System

## SMALL RECTANGULAR THREE-TWINE BALERS

MODEL SPECIFICATIONS	1843S	1843N
<b>Bale Size</b>		
Size of Chamber in. (mm)	15 x 22 (380 x 560)	15.75 x 22 (400 x 560)
Bale Length in. (mm)	12 to 52 (305 to 1,321)	12 to 52 (305 to 1,321)
<b>Dimensions and Weights</b>		
Length w/ Bale Chute in. (mm)	285 (7,239)	285 (7,239)
Width (Overall) in. (mm)	104 (2,642)	104 (2,642)
Height w/Shielding in. (mm)	69 (1,753)	69 (1,753)
Baler Weight, Approximate lbs. (kg)	8,000 (3,632)	8,000 (3,632)
Tongue Weight lbs. (kg)	1,030 (468)	1,030 (468)
<b>Tires</b>		
Flotation	14L - 16.1, 12 Ply	14L - 16.1, 12 Ply
Pickup Gauge Wheels	4.00 x 16 Pneumatic w/Inner Tube	4.00 x 16 Pneumatic w/Inner Tube
<b>Pickup</b>		
Drive	Drive Shaft and Roller Chain	Drive Shaft and Roller Chain
<b>Width</b>		
Tine to Tine in. (mm)	70.2 (1,783)	70.2 (1,783)
Inside Panel to Panel in. (mm)	77.5 (1,969)	77.5 (1,969)
Outside End Panel in. (mm)	91.2 (2,317)	91.2 (2,317)
Overall w/Gauge Wheels in. (mm)	108.5 (2,756)	108.5 (2,756)
Number of Tine Bars	4	4
Number and Type of Tines	56, Double Tines	56, Double Tines
Tine Spacing in. (mm)	2.6 (66)	2.6 (66)
Tine Control	Dual Camtracks	Dual Camtracks
Protection	Slip and Overrunning Clutch	Slip and Overrunning Clutch
<b>Augers</b>		
Length in. (mm)	33.54 (852)	27.6 (700)
Shaft Size in. (mm)	1.38 (34.9)	1.25 (31.8)
Speed rpm	278	212
Gauge Wheels	Two (One per Side)	Two (One per Side)
Pickup Lift	Hydraulic Cylinder	Hydraulic Cylinder
<b>Feeding System</b>		
Stuffer Crank	6 Tines	8 Tines
Protection	Shearbolt	Shearbolt
<b>Plunger</b>		
Speed Strokes/min	90	90
Length of Stroke in. (mm)	21.9 (556)	21.9 (556)
Mounting	10 Sealed Ball Bearing Rollers	10 Sealed Ball Bearing Rollers
<b>Engine</b>		
Model	Deutz Air Cooled Diesel F4L 914D	Deutz Air Cooled Diesel F4L 914D
Horsepower hp (kW)	67 (50)	67 (50)
Displacement cu. in. (L)	263 (4.3)	263 (4.3)
Fuel Tank Capacity Gal, U.S. (L)	29 (109.8)	29 (109.8)
<b>Hydraulic System</b>		
Type	Self-Contained	Self-Contained
Pump Displacement gpm (L/min)	3.6 (13.6)	3.6 (13.6)
<b>Towing Vehicle Requirements</b>		
Weight, Minimum lbs. (kg)	5,700 (2,588)	5,700 (2,588)
Electrical	12 Volt DC with ASAE 7-Pin Connector for Warning Lights	12 Volt DC with ASAE 7-Pin Connector for Warning Lights
<b>Optional Kits (Field Installed)</b>		
	Clevis Hitch	Clevis Hitch
	Tandem Wheel, 12.5L - 15	Tandem Wheel, 12.5L - 15

## BALE THROWER

General	
Applicable Models	1835/1837/1839
Thrower Type	Belt
Belt Drive	Hydraulic Pump Driven by Baler Flywheel
Apron Belts	
Type (Number)	WedgeGrip Pattern (2)
Size in. (mm)	12 (305)
<b>Bale Size</b>	
Cross Section in. (mm)	14 x 18 (356 x 457)
Length in. (mm)	36 (914)
Bale Weight (Max) lbs. (kg)	70 (32)
<b>Dimensions and Weights</b>	
Length in. (mm)	63 (1,600)
Height in. (mm)	72 (1,829)
Weight (Approx.) lbs. (kg)	500 (227)

**YOUR SATISFACTION IS THE MOST IMPORTANT PART OF A MASSEY FERGUSON® 1800 SERIES SMALL SQUARE BALER.**



Massey Ferguson branded parts are manufactured to meet the same high standards of dependability as every 1800 Series Small Square Baler. Continued and consistent use of these quality parts will help keep your 1800 Series Small Square Baler operating like new.



Count on your dealer for prompt service from qualified technicians who know your 1800 Series Small Square Baler inside and out. What's more, your dealer is determined to earn your business with extra effort at every turn.



Your dealer and AGCO Finance offer attractive financing to make sure an 1800 Series Small Square Baler will fit your operating budget. Extremely competitive rates and terms make it easy to buy, lease or rent.

