

# SQUARE BALERS

#### IMPORTANT INFORMATION

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A.C.N. 008 671 725



# Reliable

## Quality that stands the test of time

Whether you're putting up hay for horses, dairy, or beef cows, you need a baler that makes solid, stackable, square-sided bales, bale after bale after bale.

Look no further. Only John Deere square balers feature our field-proven hay-control system. You get solid, square-sided bales that hold onto hay quality...and hold together longer.

Just choose the model that best fits your needs. All three balers include the standard features that have made them the choice of farmers and ranchers for years.

**328 Baler:** The best bet for the economy-minded, the pickup is a full 10 inches wider than the baler it replaced.

**338 Baler:** A high-performance pickup helps give this model the right combination of performance and price for many medium-sized operations.

**348 Baler:** For the operator who needs high-capacity, the 348 is ideal. It features a faster plungerhead, beefier flywheel, and a heavy-duty bale case with adjustable side doors.

*John Deere reliability gets your hay in on time. And the proven hay-control system produces solid, straight-sided bales that stack and transport extremely well.*



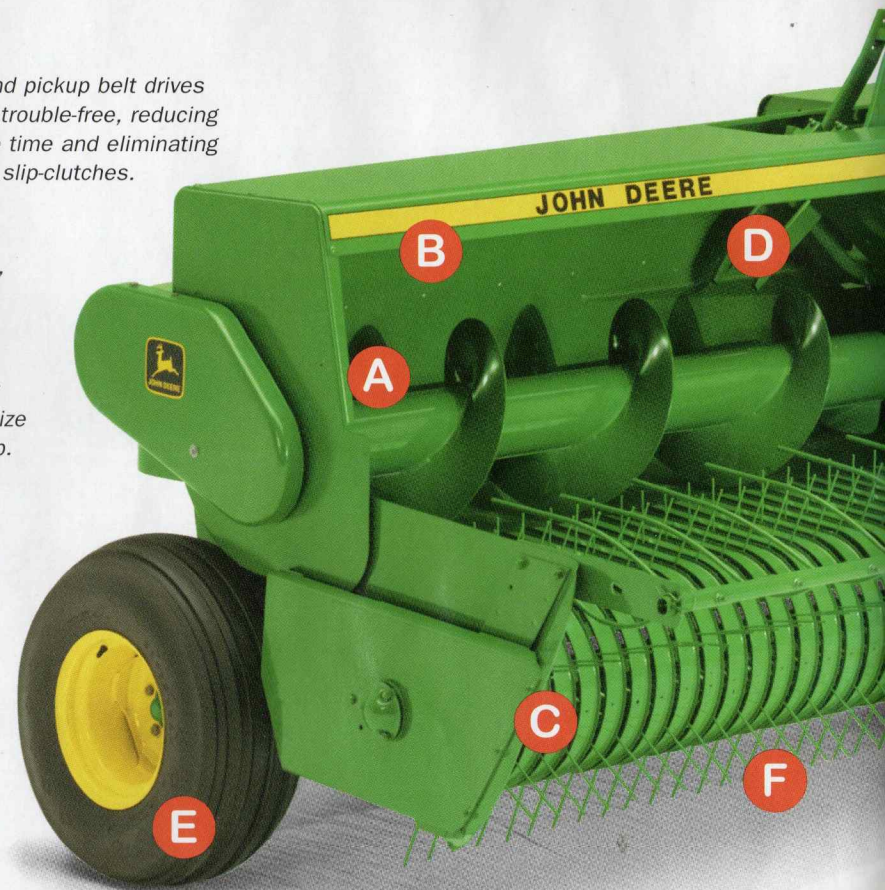
**A** *The auger and pickup belt drives are virtually trouble-free, reducing maintenance time and eliminating the need for slip-clutches.*

**B** *The simple, deep-flighted auger provides continuous, uniform feeding, and reduced leaf loss.*

**C** *The low-profile pickup is offset ten inches so you can fully utilize the 74-inch width of the pickup.*

**D** *Adjustable feeder forks fold precompressed hay into the chamber, ensuring uniform bale density.*

**E** *High-flotation tires (optional on 328) reduce compaction and are gentle on tender regrowth of legumes.*



**F** *Rows of closely-spaced teeth and narrow-channel flanged strippers clean up all the hay on the ground.*



**NOBODY DOES HAY BETTER**



**G** A few turns of this crank let you match pickup height to your conditions. Hydraulic lift is optional.

**I** A 3-joint powerline with an equal-angle hitch (optional on 328) ensures smooth power transfer.

**H** Fast plungerhead speed, long, 30-inch strokes, and the wide feed opening add up to unmatched productivity and capacity.

**K** Gear- and shaft-driven knotters provide a positive drive for dependable and accurate operation.

**L** An adjustable hay compressor is mounted to and floats with the pickup to maintain positive control of the hay.

**J** A 20,000-pound safety chain helps control the baler, should it accidentally become unhitched.

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# Performance

## More hay in the baler equals more hay in the bale

Hay that's left on the ground is money lost. Which is why you'll appreciate John Deere's pickup design.

It starts with a small-diameter, low-profile pickup, offset 10 inches to the right of the bale case, so you can take advantage of the entire working width without running a tractor tire over the windrow.

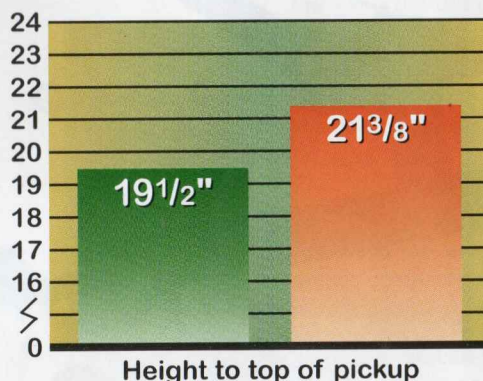
Because the pickup is low to the ground, it can pick up light or short material that other balers might leave behind. Adjusting pickup height is simple. So it's easy to match field conditions.

Closely-spaced pickup teeth and flanged channel strippers extend all the way to flares, allowing full-width feeding across the 74-inch pickup. No dead spots. This helps keep the hay – especially protein-rich leaves – inside the baler.

And, because the diameter of the pickup is smaller than others, the hay travels a shorter distance. So there's less chance of leaf loss or other hay damage.

Compressors turn the windrows into a controllable crop mat. The compressors are attached to and float with the pickup to maintain the same relationship to the strippers at all operating heights. You can choose from nine positions, to keep control of the hay in either large and heavy or light and fluffy windrows.

Rugged springs, mounted at each end of the pickup, give it flotation. You get excellent ground-hugging, hay-saving performance. And the left spring doubles as a drive-belt spring; another indication of this simple, proven, and very practical design.



The pickup height of a John Deere baler reduces crop lift by nearly two inches versus our main competitor's. Since the hay doesn't travel as far, there's less chance of damage to the leaves.

*A low-profile pickup means less lift, reduced hay damage. So you get the quality hay into your baler, and your bales. Pickup flotation is controlled by two springs, one mounted under each end of the pickup. The left spring also provides drivebelt tension.*

*Pickup teeth and flanged, narrow-channel strippers extend to the sides of the pickup. So the full working width of the pickup is useable. This helps keep leaves and other fine material from falling to the ground, which puts more quality into each bale.*

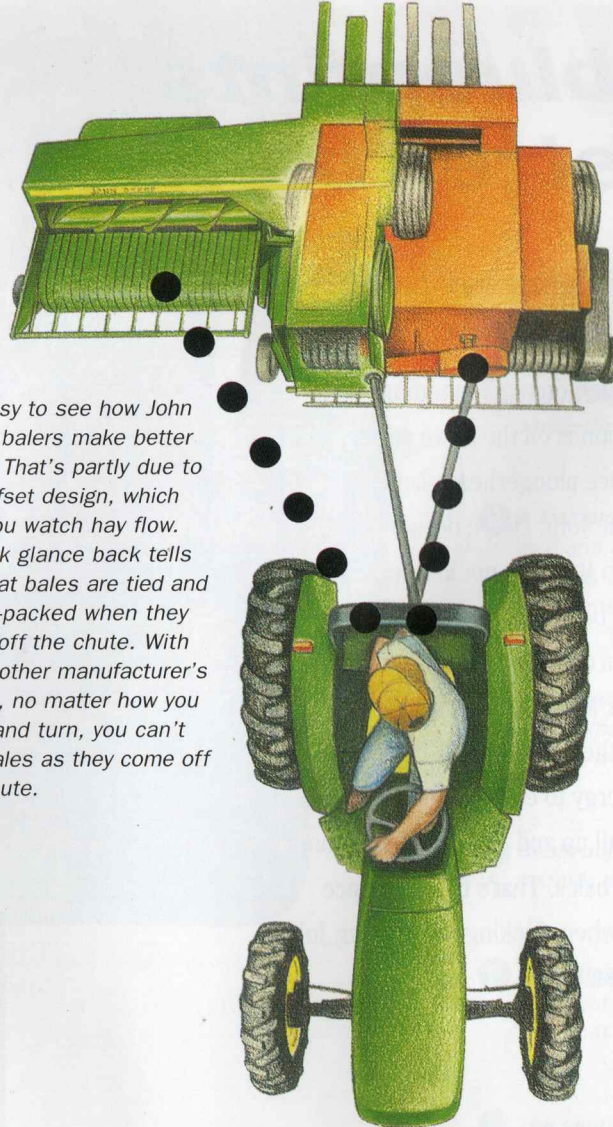
*Compressors turn a fluffy windrow into a controlled crop mat immediately. Mounted to the pickup, the rack adjusts to nine positions to match large or small windrows. Remove two spring pins and the rack comes off, giving you easy access to the auger and feed opening.*



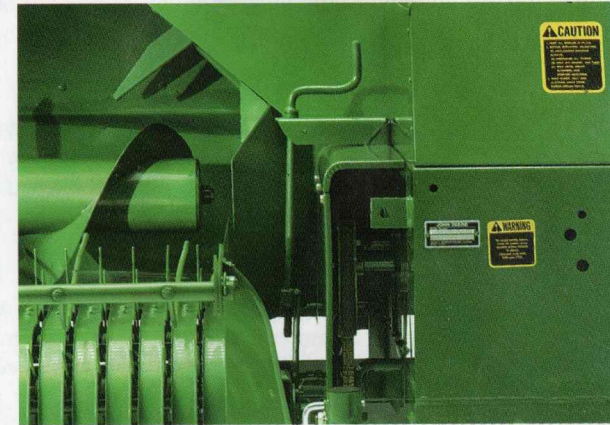
The 328 Baler features a two-joint Cat. 3 powerline with a short tongue (three-joint, optional). Models 338 and 348 feature a Cat. 4 three-joint powerline with a longer tongue and equal angle hitch to minimize powerline vibration and chatter during turns. The 348 Baler can also be equipped with an optional Cat. 5 driveline and heavy-duty double-disk-type clutch.



It's easy to see how John Deere balers make better bales. That's partly due to the offset design, which lets you watch hay flow. A quick glance back tells you that bales are tied and tightly-packed when they come off the chute. With some other manufacturer's balers, no matter how you twist and turn, you can't see bales as they come off the chute.



The deep-flighted, free-floating auger continuously moves hay away from the pickup and into the pre-compression chamber for high-capacity, uniform bales. Since the pickup teeth are not constantly contacting the crop, leaf loss is reduced and overall hay quality is improved.



This simple hand crank lets you adjust the pickup height to match your field conditions. You can quickly adjust the pickup to skim the stubble and clean up light hay, or raise it all the way up for transport. For added convenience, choose optional hydraulic pickup lift with an adjustable downstop.



# Constructive

## Here are the blueprints for building better bales

*Building squarer, stackable, solid bales is what our proven hay-control system is all about. Here's how it works:*

The continuous-flow, floating auger is designed to ensure a quick release of the hay to the feeder forks. The wide, 289-inch feed opening lets the auger and feeder forks move even large volumes of hay into the bale case on every charge.

The auger moves the hay into a tapered chamber, precompressing the hay before it reaches the bale chamber. Adjustable feeder forks fold each charge into the bale chamber.

Then the heavy-duty plungerhead takes over. It runs on three precision bearings located in high-load areas to ensure quiet,

efficient operation and minimum wear.

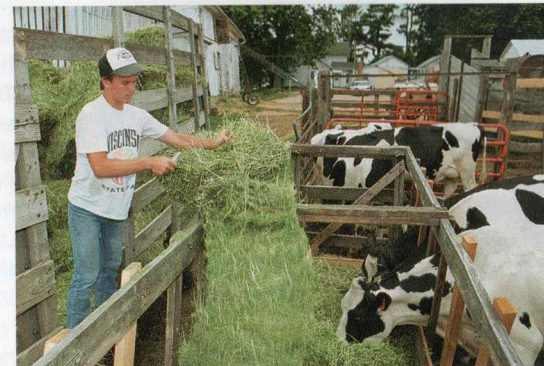
Compression is on the down stroke, which helps reduce plungerhead slap.

Plus, the John Deere design puts the flywheel on the side, not in front. So not only can it be built stronger, heavier, and larger, it turns on the same plane as the plunger for a smooth, efficient transfer of power. At the same time, it applies more kinetic energy to each bale charge.

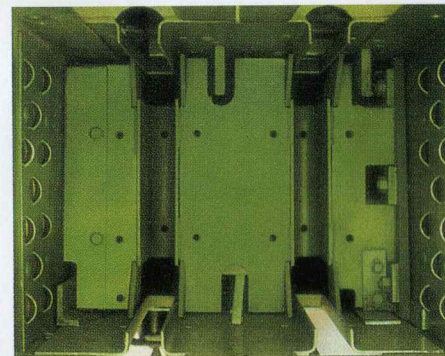
Add it all up and you get denser, more consistent bales. That's the difference you'll see when stacking and feeding John Deere bales.



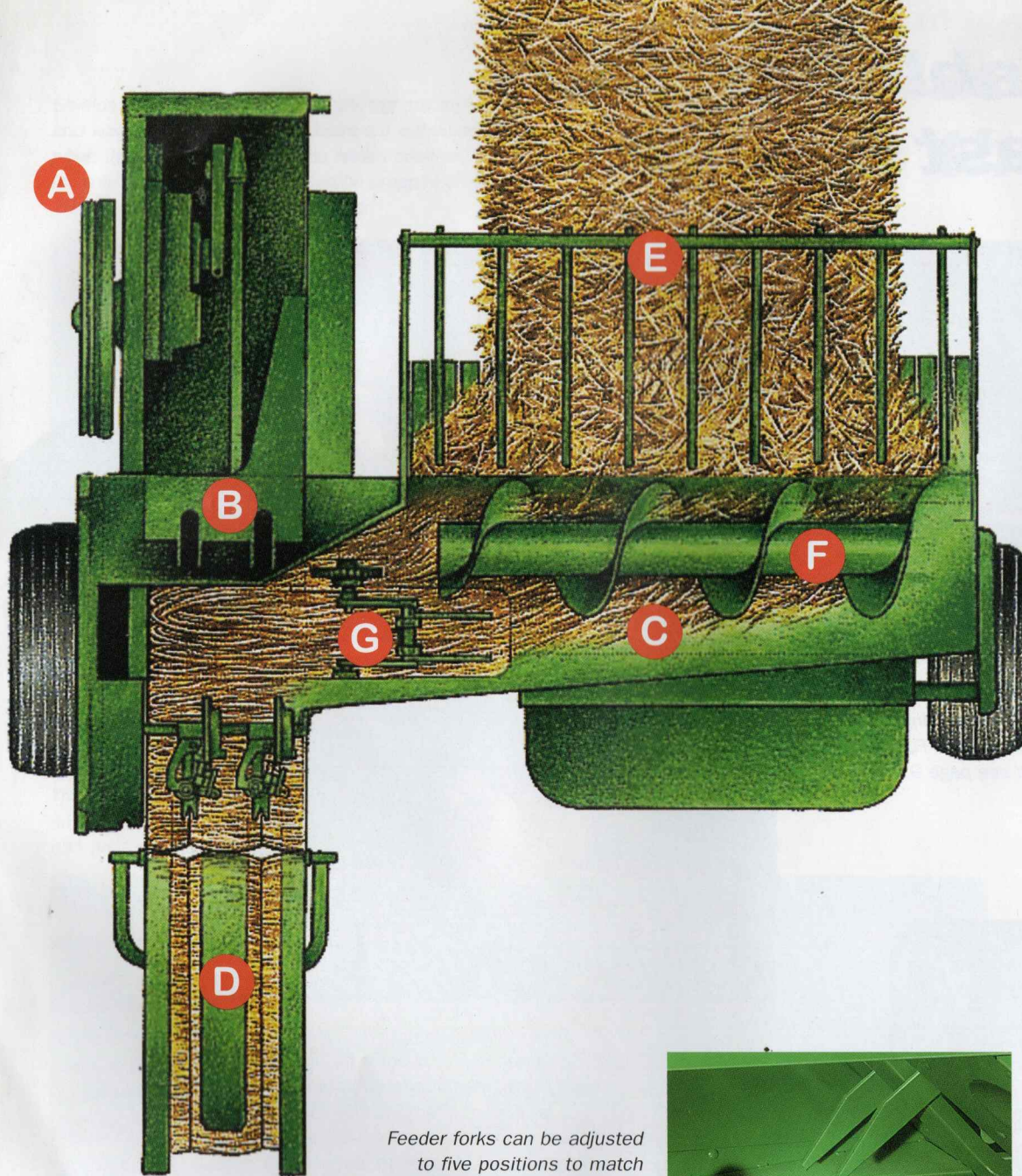
*Offset 10 inches to the right of the bale case, John Deere balers let you utilize the full width of the pickup. Without running a tractor tire over your windrows.*



*John Deere balers get the quality hay inside the baler and inside the bale. So you can keep your cows happy. and, in turn, they will keep you happy.*



*Retractable hay dogs (three on 328 and 338, six on 348 balers) and dimpled side resistors hold hay between charges. Hay dogs are cushioned for quieter operations. Top and bottom hay groovers form channels in the bale to keep twine or wire secure, even at the corner. Wedge hay resistors can be added to increase density if needed.*



Feeder forks can be adjusted to five positions to match the feeding requirement to hay conditions. Forks are spring-loaded for protection and are timed independently of the knotters.



- A** The flywheel turns on the same plan as the plungerhead, for efficient power transfer.
- B** A fast plungerhead speed (80 strokes/minute on 328 and 338, 93 strokes/minute on 348) adds to capacity and productivity. So do the long, 30-inch plungerhead strokes.
- C** The auger housing is deep and slightly angled for additional room where the crop volume is heaviest. The auger is also tapered to ensure a quick release of the hay to the feeder forks.
- D** Crank-adjustable top and bottom T-rails apply uniform tension to the bale.
- E** A floating compressor turns a fluffy windrow into a tight crop mat. Even on windy days, or in short, dry hay, the crop mat remains under control.
- F** The continuous-flow auger moves hay to the precompression chamber. It floats freely up and down, automatically adjusting to changing volumes of hay. The auger flighting extends over the strippers to move crop away from the pickup and into the chamber. This increases capacity and reduces the loss of leaves and short material you'd expect to find on balers that use pickup teeth to force hay into a cross-feeding chamber.
- G** Feeder forks fold the precompressed hay into the chamber to ensure uniform bales.

# Dependable

## The most dependable knotters are also the easiest to adjust

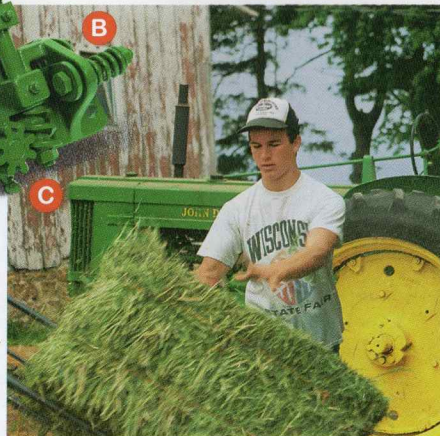
How do John Deere knotters run like clockwork? For starters, they're driven by a shaft and gears for dependable, reliable operation. With the John Deere system, knotters and needles are easily timed by removing one bolt and matching the gears. They're also shear-bolt protected.

Both wire (available on 338 and 348 Balers) and twine balers feature strong, heavy needle-lift shafts for long-lasting performance. And for easier servicing, the split-frame knotter (A) clamps to the needle-lift shaft, so you can remove it without having to disassemble the entire assembly. A spring-controlled twine holder (B) lets you easily set the tension to handle sisal or plastic twines, for dependable operation. A nut (C) on the twine disk shaft eases disk timing. And a redesigned tucker finger ensures on-target positioning of the twine on the billhook.

Surgical-quality steel twine knives are easily removable for sharpening or replacement.



*John Deere bales are solid. Solid enough to be thrown onto a hayrack without looking like they were thrown onto a hayrack. For more on the 42 Bale Ejector, see page 9.*



*A hardened billhook cam track on the knotter is easily replaced separately from the knotter frame. It can be removed without replacing the knotter frame, which saves both time and money.*



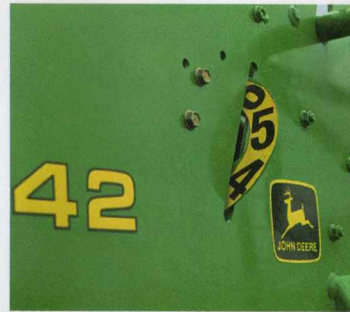
*When timing the needles, you'll find this timing slot a welcome addition. It makes positioning the plungerhead a lot easier, even with hay in the bale chamber. Once positioned, secure the gears with just one bolt.*

*First this John Deere bale was thrown into the rack. Thrown onto an elevator. Dropped, tossed, stacked, and thrown again. No other bales hold together as well.*

# Productive

## Raise your productivity with the 42 Bale Ejector

Shields pivot for access to the bale-trip adjustment and wagon hitch. The ejector locks out automatically when the pan shields are in the raised position, for your safety, and so bales can be dropped on the ground without removing the ejector.



With Dial-A-Distance™ control, adjust the throwing force from your tractor seat. This indicator is your gauge.



The hydraulic system is precharged with oil, filtered, sealed and tested at the factory, reducing the chance of contamination. An oil filter is not required.

Give productivity, as well as your bales, a boost with the 42 Bale Ejector. It makes being productive even easier. And, hay quality remains intact, because the 42 Ejector won't chafe bales or tear at the twine like belt-type throwers.

Electric distance controls are standard... a plus on hills or when finishing a wagon-load. Turns? The optional joystick control puts throwing force, and angle control (as much as 15 degrees) at your fingertips.

The 42 Bale Ejector takes the work out of loading bales and can be used on all three square balers. The throwing pan peaks out tall loads and is gentle on the bale.



### SPECIFICATIONS\*

**Compatibility** John Deere 328, 338, 348, 327, 337, 347, 336, 346, 24, and 224 Balers

#### Bale Size:

**Cross-section** 14x18 in. (36x46 cm)  
**Bale length** 27 to 38 in. (69 to 97 cm)  
**Bale weight** 80 lb. (36 kg) maximum

**Height\*\*** 31 in. (79 cm)

**Length\*\*** 68 in. (174 cm)

**Weight** 610 lb. (276 kg)

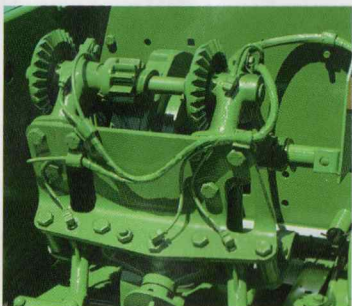
**Hydraulic Pump Capacity** 8.5 U.S. gal. (32.2 L)

\*Specifications and design subject to change without notice

\*\*Past bale case

# Versatile

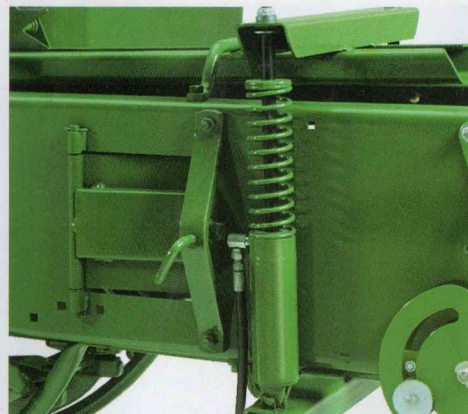
## Options and Attachments



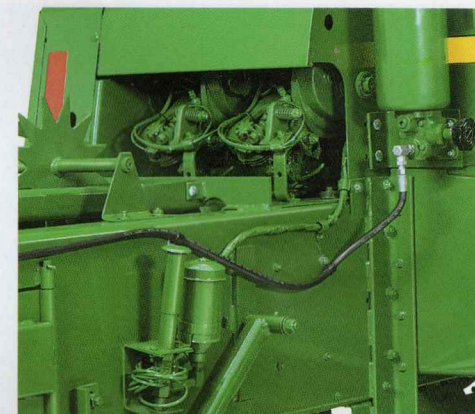
Wire twisters are available on both 338 and 348 Balers.



The optional side-drop chute places bales on their side to keep twine, or wire, off the ground. It's reversible, allowing either right- or left-side drops.



Optional hydraulic bale tensioning compresses both bale case T-rails for solid, compact bales. You can change the tension by turning a knob.



Lube the knotter quickly and cleanly. A few pumps with the optional multi-luber is all it takes (standard on 348 Baler).



Hydraulic tongue positioning (optional) lets you switch from transport to field position from the tractor.

Auxiliary lights (optional) light up the pickup, knotter, and twine box for nighttime baling.

Pickup gauge wheels (optional) allow the pickup to float over uneven terrain, such as irrigated or rough fields, with less scalping. These high-flotation tires (16x6.50-8) provide smooth operation, and are adjustable for accurate ground gauging.



Make record keeping easy. This bale counter (standard on 348 Baler) keeps a running total of up to 9,999 bales, but can be set back to zero at any time.



# Specifications

Specifications and design subject to change without notice.

## Bale size

Cross section  
Length

**328**

14x18 in. (36x46 cm)  
12 to 50 in. (31 to 127 cm)

**338**

14x18 in. (36x46 cm)  
12 to 50 in. (31 to 127 cm)

**348**

14x18 in. (36x46 cm)  
12 to 50 in. (31 to 127 cm)

## Pickup

Width inside  
Width on flares  
Number of teeth  
Height adjustment  
Height adj. range  
Cylinder diameter

64 in. (1.6 m)  
74 in. (1.9 m)  
104 on four bars  
Crank (hydraulic, opt.)  
5 in. (13 cm)  
12 in. (31 cm)

64 in. (1.6 m)  
74 in. (1.9 m)  
156 on six bars  
Crank (hydraulic, opt.)  
5 in. (13 cm)  
12 in. (31 cm)

64 in. (1.6 m)  
74 in. (1.9 m)  
156 on six bars  
Crank (hydraulic, opt.)  
5 in. (13 cm)  
12 in. (31 cm)

## Auger

Diameter  
Length

16 in. (41 cm)  
61 in. (1.5 m)

16 in. (41 cm)  
61 in. (1.5 m)

16 in. (41 cm)  
61 in. (1.5 m)

## Feed opening

289 sq. in. (0.19 m<sup>2</sup>)

289 sq. in. (0.19 m<sup>2</sup>)

289 sq. in. (0.19 m<sup>2</sup>)

## Plungerhead

Stroke  
Normal speed (under load)  
Bottom rollers  
Top rollers

30 in. (76 cm)  
80 strokes/min.  
Sealed ball-bearing rollers  
Wear pads (top)

30 in. (76 cm)  
80 strokes/min.  
Sealed ball-bearing rollers  
Wear pads (top)

30 in. (76 cm)  
93 strokes/min.  
Sealed ball-bearing rollers  
Wear pads (top)

## Flywheel

Diameter  
Weight

27 in. (69 cm)  
227 lb. (103 kg)

27 in. (69 cm)  
227 lb. (103 kg)

27 in. (69 cm)  
295 lb. (134 kg)

## Compression chamber

Length

46 in. (1.2 m)

46 in. (1.2 m)

46 in. (1.2 m)

## Tires

Right  
Left

26x12.00-12, 4PR  
11Lx14, 6PR

26x12.00-12, 4PR  
11Lx14, 6PR

26x12.00-12, 4PR  
11Lx14, 6PR

## Dimensions

Height (maximum)  
Width  
Length (with bale chute and 2-joint PTO)  
Length (with bale chute and 3-joint PTO)  
Length (without tongue and bale chute)

67 in. (1.7 m)  
108 in. (2.7 m)  
198 in. (5 m)  
227 in. (5.8 m)  
134 in. (3.4 m)

67 in. (1.7 m)  
108 in. (2.7 m)  
227 in. (5.8 m)  
134 in. (3.4 m)

67 in. (1.7 m)  
108 in. (2.7 m)  
227 in. (5.8 m)  
134 in. (3.4 m)

## Driveline

Cat. 3

Cat. 4

Cat. 4 (Cat. 5, optional)

## PTO speed

540 rpm

540 rpm

540 rpm

## Transmission

Gears  
Capacity

Steel-cut, enclosed  
4 U.S. qt. (3.8 L) SAE 90 SCL

Steel-cut, enclosed  
4 U.S. qt. (3.8 L) SAE 90 SCL

Steel-cut, enclosed  
4 U.S. qt. (3.8 L) SAE 90 SCL

## Weight

Twine (min.)  
Twine (max.)  
Wire (min.)  
Wire (max.)

2,685 lb. (1208 kg)  
2,875 lb. (1294 kg)

2,805 lb. (1272 kg)  
2,972 lb. (1348 kg)  
2,835 lb. (1286 kg)  
3,002 lb. (1362 kg)

3,110 lb. (1411 kg)  
3,320 lb. (1506 kg)  
3,240 lb. (1470 kg)  
3,407 lb. (1545 kg)



# Heavy-duty hay equipment deserves hard-working financing

*John Deere Credit, the brand of financing you can trust*

Because we understand financing and leasing as well as we do farm equipment, we offer plenty of options to finance or lease your new hay equipment with John Deere Credit.

For over a century, we've provided farmers and ranchers the brand of financing designed to offer:

- Flexible terms
- Flexible down payments \*
- Competitive variable and fixed rates

- Flexible payment terms – annual, semiannual, quarterly, or monthly
- On-the-spot financing

With John Deere Credit, there are no origination fees, no stock requirements, no blanket liens, and no lengthy approval process.

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