

Rectangular Balers



John Deere 349* 359 459

* Not available in the UK and Ireland



JOHN DEERE

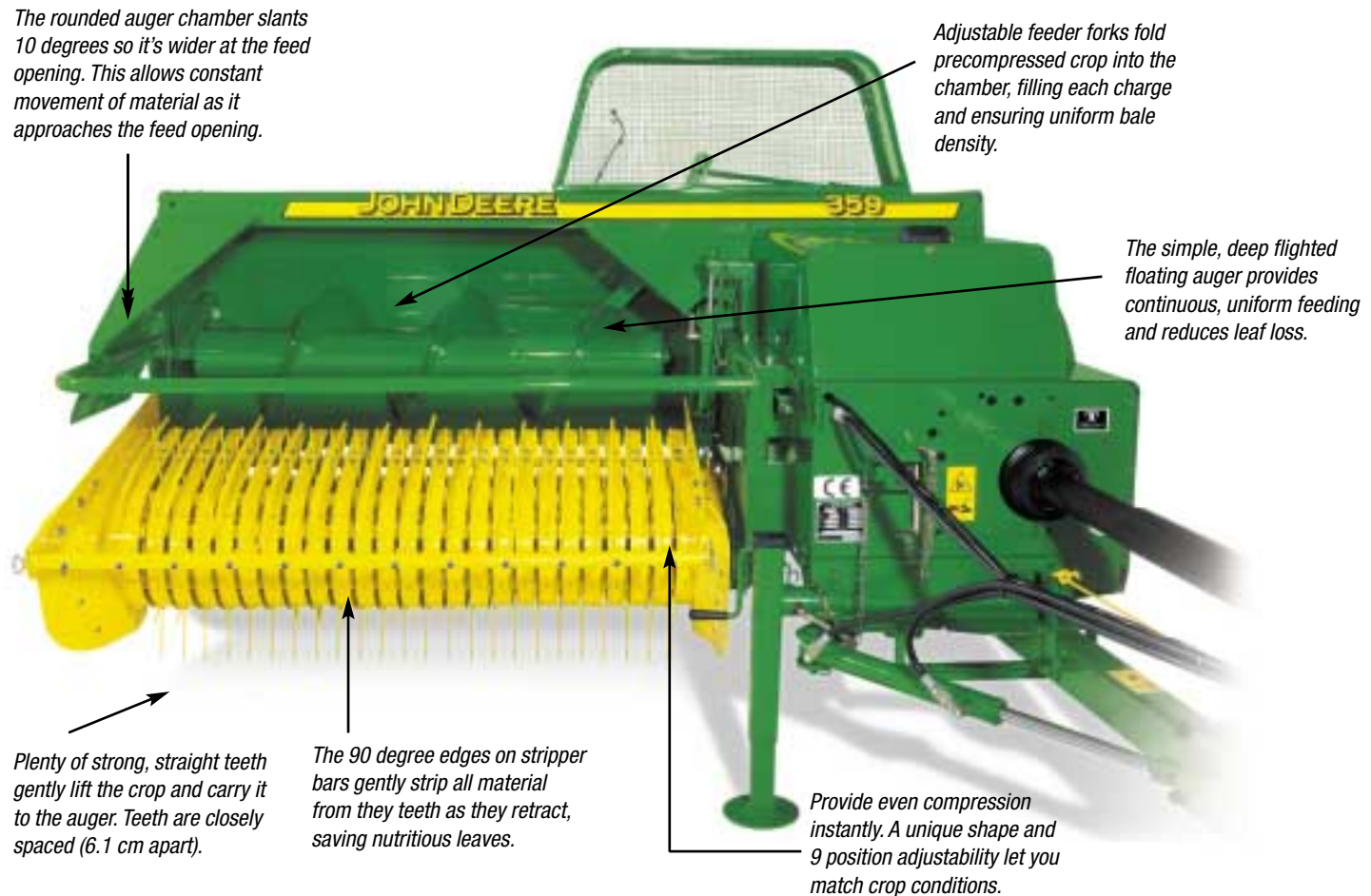
For bales that stack like bricks, get a solid baler.

“Rock Solid.” From the pick-up to the bale chute, durable components are designed to work together as a single unit. No other baler is built this way.

A proven Constant Flow crop control system puts more material into square bales. Bales that handle, stack, transport and hold onto crop quality better than others.

Plus good John Deere engineering makes these balers more efficient. You gain more capacity without using more horsepower.

Parts availability and timely service means non-stop productivity. John Deere makes buying a square baler a very solid investment.



MODEL	FEATURE COMPARISON
349*	The 349 makes solid bales measuring 36 x 46 cm. The 1.75 m pick-up (96 teeth, 4 bars) carries material to a 1914 cm ² feed opening. There are 80 plungerhead strokes per minute, the minimum tractor requirement: 41 horsepower.
359	The 359 makes 36 x 46 cm bales. A deluxe pick-up (114 teeth, 6 bars) delivers material to a 1914 cm ² feed opening. The 359 also has a faster plungerhead speed of 92 strokes per minute. The minimum tractor requirement: 47 horsepower.
459	The 459 also makes 36 x 46 cm bales. It's pick-up (168 teeth, 6 bars) is 2 m wide, moving the crop into a 1914 cm ² feed opening. At 100 strokes per minute the plungerhead boosts capacity. The minimum tractor requirement: 61 horsepower.

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More into the baler. More into the bale



High Capacity, Low Profile Pick-up

Crop control – and better bales – start here; with the low profile, high capacity pick-up, crop lift and leaf loss are minimised, thanks to the small diameter pick-up. Plenty of long, straight teeth work to lift the crop and gently carry it to the cross auger. Teeth are spaced just 6.1 cm apart to effectively handle even short grasses and straw. Flanged, narrow-channel strippers keep the material (especially protein rich leaves) inside the baler.

The pick-up takes control immediately. The nine-position compressor rack turns fluffy windrows into a controllable crop mat; adjusting is easy as conditions change. Attached directly to the pick-up, it maintains the same relationship to the pick-up at all heights.

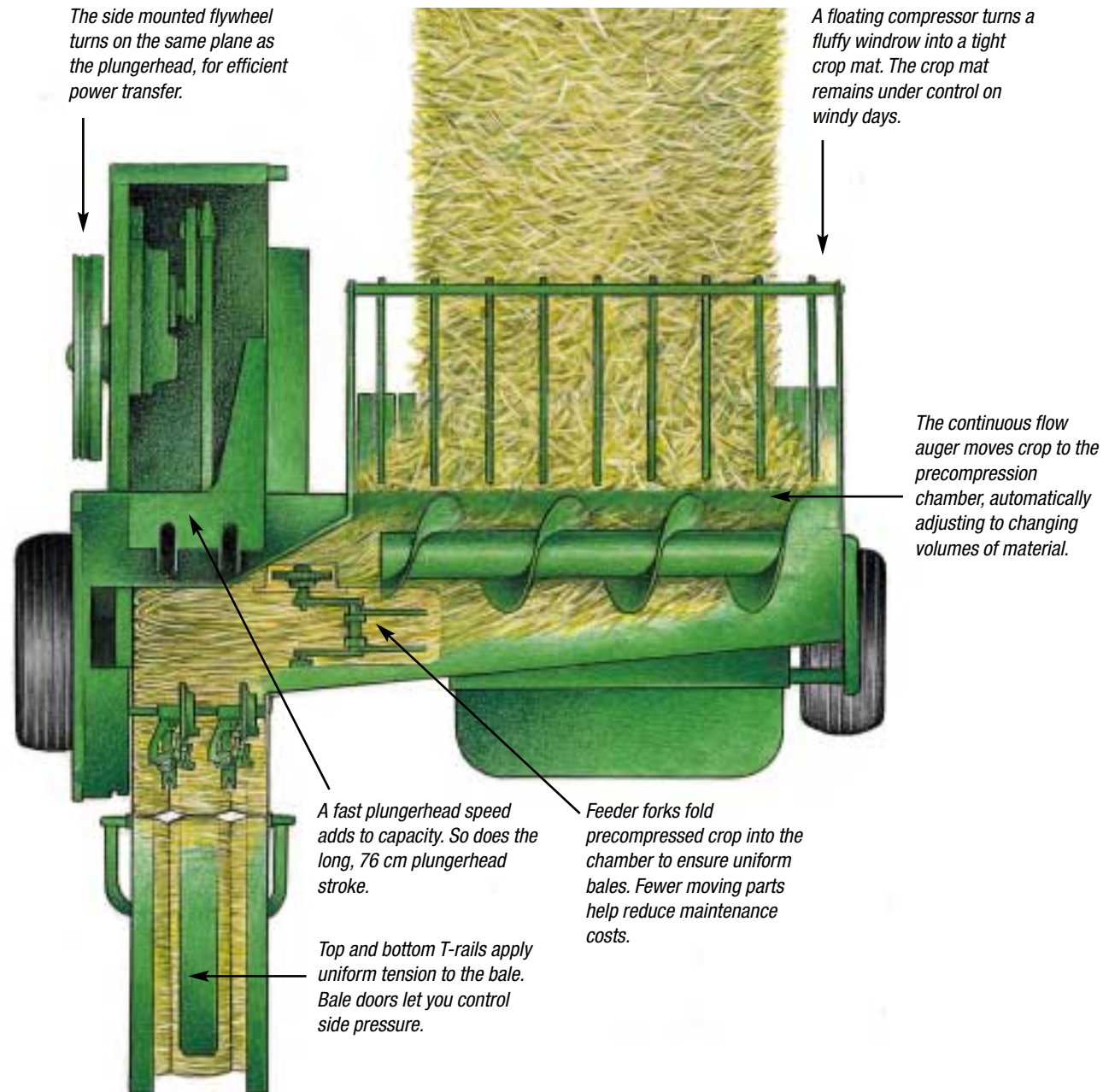
Get excellent ground hugging, crop saving performance. Rugged springs, mounted at each end of the pick-up, provide the flotation. The left hand spring doubles as a drive belt tension spring – another indication of the practical design.

John Deere balers deliver consistency, consistently.

Building squarer, stackable, solid bales is what the proven Constant Flow System is all about. It provides complete control of material from the instant it is lifted off the ground until it hits the ground again as the squarest package available today. There's no surer way to form square bales in all conditions.

Once the crop is inside the baler, a continuous flow auger moves it into a tapered chamber. This makes John Deere bales denser, more consistent. A difference you will notice when stacking and feeding.

Following precompression, feeder forks fold material into every corner of the bale chamber to provide a full charge every time.



Rugged components produce solid results

Inside the bale chamber

The side location of the flywheel allows for its large size (the industry's heaviest). The weight turning on the same plane as the plungerhead, helps provide efficient transfer of power. This makes John Deere balers light running and light pulling.

The plungerhead takes over.

Fast, 76 cm strokes speed production. The crank is placed slightly to the feed opening side of the plungerhead. This puts the thrust force slightly more to the knife side of the plungerhead. The result is a cleaner cut and a lower horsepower requirement.

Plungerhead guides, roller bearings, guided side thrust, stationary knife and plungerhead knife are adjustable to help maintain peak efficiency.

Pressure is applied to the bale from four sides, increasing density. Convenient cranks let you control top and bottom pressure. (Hydraulic control is available for the 359 and standard on the 459). Adjustable hay doors maintain pressure on each side.



Control density even further with 6 retractable hay dogs (1) inside the balecase. These hay dogs, plus dimpled side hay resisters (2), keep hay firmly in place. The result is more material packed into each bale, giving the straightest edges with the squarest corners.

The all-welded balecase holds its shape and rigidity. There's no distortion over time as on bolted and combination (bolted/welded) balecases which tend to loosen up.

The most dependable. The easiest to adjust.

John Deere has developed the **gear driven knotter** into the most efficient, reliable tying mechanism. Count on every bale to be tied with a knot that won't slip or break.

These trouble-free knotters accept all types of twine and plastic – even uncalibrated sisal twine – without the need to change any parts.

Bale groovers at the top and bottom of the bale case make a groove in the bale so the twine is securely tucked into the bale for a tight, non-slip fit.

Save time and trouble with a Multi-Luber (optional on 349*, standard on 359 and 459). It quickly greases all integral points at your command. It's reliable and time saving.



John Deere gear driven knotters run like clockwork. There are no chains in this system to oil or adjust. Timing problems are eliminated. Heavy needle lift shafts deliver long lasting performance.



Needles, made of formed steel for long life, bring twine to the knotters after each cycle of the measuring wheel. And surgical quality steel twine knives are easily removed for sharpening or replacement.



The needle brake facings maintain a constant force to keep the needle out of the balecase after the tying cycle, even in the roughest terrain, and prevent backslap. The brake is designed for durability and a long service life.



The centre mounted measuring wheel provides a consistent and accurate measurement of the bale length. Adjust the bale length to meet your needs (from 0.3 m to 1.3 m). Fast speeds? Rough Terrain? The adjustable arm securely locks in place enhanced accuracy in these tough conditions.



Twine box – Models 349 and 359. Load up with an all-day supply of twine. You spend less time refilling and more time baling. The twine box is completely enclosed. Refilling is made quick and easy.



*Twine box¹ – Model 459
The John Deere 459 Square Baler provides even more twine capacity (six balls). The large, fully enclosed twine box lets you load up at the start of the day and bale all day long.*

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¹standard in the UK and Ireland for the 359 and 459 balers.

Specifications

Specifications and design subject to change without notice, and can vary from country to country. Please check with your local dealer.

	349*	359	459
Bale size:			
Cross section (cm)	36 x 46	36 x 46	36 x 46
Length (adj) (m)	0.30 to 1.30	0.30 to 1.30	0.30 to 1.30
Pick-up:			
Width of opening (m)	1.75	1.75	2
Inside width (m)	1.56	1.56	1.8
Raking width (m)	1.41	1.41	1.65
Number of bars	4	6	6
Total number of teeth	96	144	168
Auger:			
Length (m)	1.3	1.3	1.3
Feed opening:			
Area (cm ²)	1914	1914	1914
Plungerhead:			
Strokes/min	80	92	100
Stroke length (cm)	76	76	76
Flywheel:			
Diameter (cm)	69	69	69
Weight (kg)	103	135	135
Dimensions:			
Length, transport (m)	4.78	4.78	5,14
Height (m)	1.4	1.4	1.47
Weight (m)	2.59	2.59	2.91
Weight, with twine (kg)	1254	1425	1505
Twine box capacity	4 balls	4 balls	6 balls**
Tyres (standard):			
RH side	7.00 x 12	7.00 x 12	7.00 x 12
LH side	10.00/75 x 15.3	10.00/75 x 15.3	10.00/75 x 15.3
Horsepower:			
Required at PTO	41 hp (30 kW)	47 hp (35 kW)	61 hp (45 kW)

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**Six balls standard in the UK and Ireland.

Count on John Deere to be there when you need them most

Dealership Parts and Service.

We're also there where you need us. In-field service is just a part of your John Deere dealer's long term commitment to keeping you up and running. He's also close to home, so when you need a simple replacement part...or years down the road should you require more substantial attention...your John Deere dealer is there to help. His John Deere trained technicians know these balers inside and out. They're skilled at diagnosing problems correctly and providing a quick remedy. And your dealer's well stocked parts department, teamed with computerised parts ordering, ensures that you get fast delivery. You can count on your John Deere dealer to be there when and where you need him.

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