

900 Series Variable Chamber Baler



Get in the fast lane.

With its innovative unloading concept and uncompromising design, the 900 Series sets new standards for productivity and versatility. Instead of the 70 bales per hour most operators would be proud to achieve in fair conditions, this incredible ISOBUS machine can produce many more. All with the consistent high quality and density you and your customers demand.

- Instant bale unloading
- High capacity
- Unmatched density
- Excellent fuel efficiency





Table of Content

Introduction	2–3
Full Frame Design	4–5
Pick-up & Feeder	6–7
Bale Chamber	8–9
Fast Release System	10–11
Netwrap	12–13
Displays / Tractor-Implement Automation	14–15
Maintenance / Specs	16–17

Full frame design – the innovative secret.

Inside the sturdy structure is an industry first: an independent bale chamber with a revolutionary Fast Release System. The moment a bale is ready, the sides of the chamber slide outwards to release the bale in almost 5 seconds – with no sticking or blockages.

All the components are cradled inside the full frame, away from the stresses and strains balers face. Each component can focus on the job they were designed for, delivering high speed productivity and reliability throughout an extended lifecycle.



**Belts**

The 2 wide endless belts are linked to the frame, not to the bale chamber. As a result, the belts can provide exceptional bale density – and all tension and stress goes straight to the frame.

Bale chamber

The 900 Series has a special bale chamber that is inserted into the baler frame. The side sheets play no structural role. Since the chamber only has to make bales, all components are perfectly sized for the job.

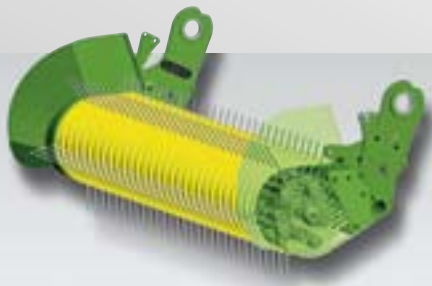
Fast Release System

Forget heavy gates: the 900 Series has a fast, lightweight gate that puts almost no strain on the sturdy full frame it's attached to.



What an appetite!

Want uncompromising productivity and capacity? The 900 Series baler delivers. With its 2.2 m width, drop floor unplugging system – and a high capacity pick-up that devours even the toughest of crops.



Built to last

The 5-tine bars and low rotating speed ensure high productivity and a long lifecycle. Tine cams with ball bearings ensure a smooth and quiet ride.



High Capacity rotor

The High Capacity (HC) rotor design improves crop transfer with Rotoflow and Maxicut pick-ups, enabling you to process high volumes of crop per hour.



Cab operated drop-floor unplugging

The new-design drop floor ensures safe, swift unplugging every time. Covering the full rotor width you can even remove plugs under the converging augers within seconds.





MaxiCut HC 25

The 25-knife fine-chop pick-up offers different crop length settings: minimum 40 mm (with 25 knives), 80 mm, or full crop length. Since for the medium crop length you can use sets of 12 or 13 knives. Knives stay sharp longer, saving you fuel every time you bale.



MaxiCut HC 13

With 13 knives, this pick-up gives you the ideal minimum 70 mm silage length which most farmers prefer.



RotoFlow HC

The rotor feeder is ideal for dry material. It efficiently transfers the most delicate crops and preserves stem length.

Perfect bales in record time.

Although the new 900 Series is so fast, it doesn't cut corners on bale quality or density.

Save on fuel

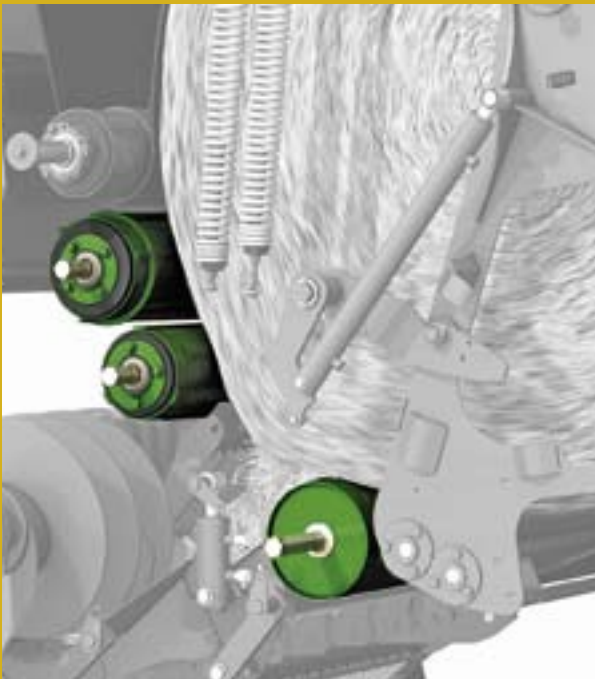
With its large, non-stick bale chamber and smooth transmission, the 900 Series takes fuel efficiency to the next level too. In fact, you save on diesel costs every time you bale!

Bale formation

The 900 Series uses 100% of available power to compress crop against the rolls. Whatever you're baling, the offset tensioning arm balances density and power consumption perfectly every time.

Soft core function

The continuously adjustable soft core function deactivates the belt's tension directly from the cab until a set diameter has been reached. That means the crop can 'breathe' and dry more efficiently. It also makes bales easier to unroll when it's time for your customers to feed their cattle.



1 Three powered rolls

Wet fields or dry, the 900 Series delivers uncompromising performance in a wide range of crops. The three powered rolls provide perfect bale shapes in silage, while the design of all the rolls and belts makes bale starting easy and fast.



2 Two wide endless belts

At 573 mm, these belts improve bale coverage, which means less crop loss. The endless design ensures smooth running and the low rotation speed saves fuel and extends the duty cycle.





- 3 Starter roll**
Supports bale start, regardless of crop or condition.
- 4 Perfect grip**
The belt surface grabs crop firmly.
- 5 Tension arm**
Provides direct pressure to the belts.
Bale density can easily and continuously be adjusted from the cab.
- 6 Softcore system**
Pressure to the core of the bale can be optimised from the cab. Crop quality is improved by making the bale easier to dry.

Three times faster.

Three times faster

Conventional variable chamber balers take at least fifteen seconds to unload; the 900 Series unload within five seconds. That means you save one whole minute on every 6 bales you produce.

No gate, no wait

Unloading time is essentially downtime. So to speed things up, our engineers came up with an entirely new concept that does away with conventional gates completely.

With no heavy conventional gate to lift or close, the 900 Series gets back to work within five seconds. The Fast Release System is 60% lighter than a conventional gate, baler stress is lower – which means your machine lasts longer.

Long-life stability

The new design is extremely simple and requires less maintenance than conventional balers. Since the centre of gravity stays low at all times, baling on slopes is faster and safer too.

Non-stick productivity

Thanks to the movable side sheets in the bale chamber, bales are turned out without contact. No more sticky bales to slow you down!

The moment a bale is ready, the 990 or 960 stops the tractor automatically*.

00:01:

Movable side sheets release the pressure on the bale sides. The bale chamber and protective curtains open.



00:03:

With no conventional gate to open, bales are released right away.



00:05:

The baler prompts the operator to put the tractor into forward gear. Job done!



*Only with Tractor-Implement Automation (option) and AutoPowr transmission.



Wrap it up – quietly.

The new 990 and 960 balers wrap bales more reliably and quietly.

Steady feed

The special design prevents net plugs by drawing the net directly into the chamber. The new net device is suitable for any kind of net regardless of the roll diameter and wraps the bale perfectly.



Convenient location

The unit is front-mounted at a convenient height, making it easy to keep an eye on the tying process. When it's time to reload, your operators will appreciate how the net device tray always stays within easy reach.



Direct feed: net is fed directly between the two chamber rolls, and is snatched round the bale immediately.



Storage capability: you can store two extra net rolls and 10 twine balls.

For faster tying and lower twine consumption, always specify John Deere twine. It's the perfect match for the double binding arms on the new 900 Series.



John Deere CoverEdge extends over the bale edge to protect more surface area. This prevents moisture from being drawn up into the bale.

Take control.

For the ultimate in productivity, team your new **ISOBUS certified** 900 Series baler up with an advanced GreenStar ISOBUS display. They are designed for easy, trouble free performance in real life conditions.

Thanks to the intuitive interface, even less experienced operators are able to adjust and control the various settings from the cab:

- Bale density and size
- Softcore pressure and bale diameter
- Drop floor unplugging device
- Precutter knife selection
- TIA settings



Touch the future

As your business grows, so do your challenges. That's why it makes sense to invest in a display that has the future built right in: the new GreenStar 2630 touchscreen.

This incredible full-colour display gives you full monitoring and control over the intelligent solutions built into your John Deere tractor and baler. Moved to your sprayer it becomes a high-end GPS-enabled spray control, in the combine Greenstar 2630 is the hub of a comprehensive monitoring, mapping and documentation system. It's easy to use and is packed with all the features you need for years of high-end productivity.

From documentation and performance monitoring to guidance and advanced ISOBUS capabilities, the GreenStar 2630 sets new standards for convenience, comfort and efficiency.



Easy to follow

If you want outstanding flexibility, comprehensive guidance, realistic field views and ISOBUS implement control the 7-inch full-colour GreenStar 1800 Display is right for you.

The GreenStar 1800 Display supports the ISOBUS implement controls and it provides guidance applications including Parallel Tracking, AutoTrac and Sprayer Pro system. Multiple home pages enable you to toggle between your most used applications for added convenience.

How does Tractor Baler Automation work?



Baling process automation

1. Start by engaging the left hand reverser
2. Filling the bale chamber



3. Stop
4. Tying



7. Close curtain



5. Open curtain
6. Eject bale

Tractor Baler Automation is the first solution in the industry to use ISOBUS technology to provide state-of-the-art automation. The baler sends a signal to the tractor when the chamber is full, which triggers the transmission to stop the tractor and initiates the net wrapping and ejection sequence. John Deere Tractor Baler Automation works with new 900 Series balers in combination with John Deere tractors (required ISOBUS tractor + AutoPower + E-SCV).

Customer benefits

Increased operator comfort

Less interaction of the operator with the machine means less operator fatigue. Even less skilled operators can produce perfect one-size bales.

Better quality

The automated process is repeated again and again leading to a standard quality: every bale has exactly the same diameter.

Higher productivity

Especially unexperiend operators can increase productivity by up to 10% due to preventing idle time and focussing more on steering and setting the correct speed.

Simple design for easy maintenance.

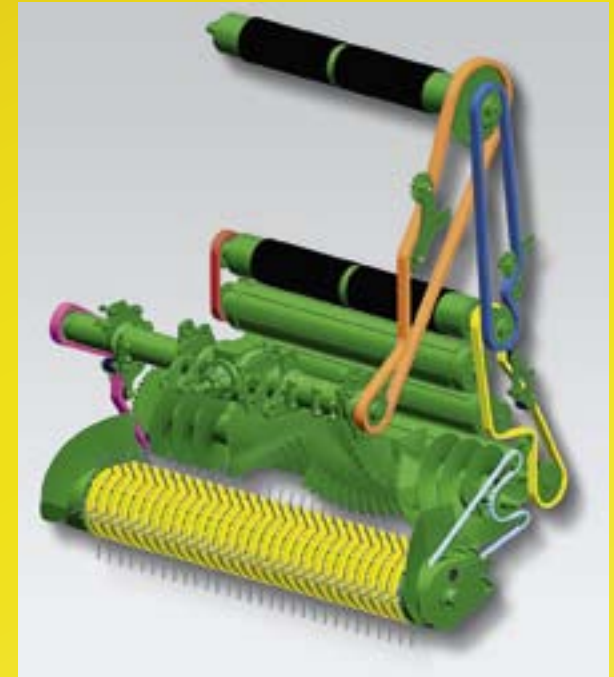
Like all components on the new 990 and 960 balers, the transmission is designed for years of fuss-free service. The design is simple and robust, with surprisingly few moving parts. This efficiency saves power and fuel, and also speeds up daily maintenance.

Automated servicing

The 900 Series balers are a pleasure to service and maintain. The automatic chain lubrication system has a large tank that needs refilling less often. The optional automatic greasing device not only saves you time every morning – you can even adjust the settings from the ISOBUS display in your cab!



Automatic chain lubrication: for longer chain life, smoother productivity and less maintenance.



More reliability, less maintenance: the transmission uses a simple, robust design for higher productivity. The integrated driveline in the crossbeam perfectly reflects this concept.



990		960					
RotoFlow HC	MaxiCut HC 13	MaxiCut HC 25	RotoFlow HC	MaxiCut HC 13	MaxiCut HC 25		
BALE							
Diameter		0.8 m to 1.85 m		0.8 m to 1.60 m			
Width		1.21 m					
FRAME							
Full frame design							
PICK-UP							
Outer width		2.20 m					
Crop compressor		Roller baffle + tines					
Teeth bars		5 tine bars HD pickup					
Gauge wheels		Pivoting gauge wheels or standard gauge wheels					
ROTOR FEEDER							
Type		High Capacity design – converging augers and rotor combined					
Number of knives		0	13	25	0	13	25
Theoretical cutting width preset		No cut	No cut / 80 mm	No cut / 80 mm / 40 mm	No cut	No cut / 80 mm	No cut / 80 mm / 40 mm
Knife selection		NA	0 / 13 knives	0 / 12 / 13 / 25 knives	NA	0 / 13 knives	0 / 12 / 13 / 25 knives
Unplugging device		Parallel kinematic drop floor - controled from the monitor					
BALE CHAMBER							
Belts		2 endless belts – 573 mm width					
Rolls		2 front powered rolls + powered starter roll					
Density system		Adjustable from 0 to max density – piloted from monitor					
Softcore system		Adjustable from 0 to max density – piloted from monitor					
BALE CHAMBER DRIVE							
Gearbox		540 RPM – 113 kW	540 RPM – 113 kW	1000 RPM – 136 kW	540 RPM – 113 kW	540 RPM – 113 kW	1000 RPM – 136 kW
PTO driveline		Wide angle – Powerdrive with extended greasing intervals					
Transmission		HD drive chains					
Lubrication		Automatic chain lubrication system – constant lubrication					
Grease bank		Base					
Automatic bearing greasing pump		Option					
UNLOADING SYSTEM							
Gate		Fast Release System – movable side sheets + light gate					
Unloading ramp		Option					
NET TYING DEVICE							
Tying system		Duckbill design					
Net compatibility		CoverEdge or Edge to Edge					
Roll capacity		2 rolls + 1 loaded roll					
TWINE BINDING DEVICE							
Twine binding capability		Option					
Binding system		Double arms					
Roll capacity		10 spools					
MONITORS							
Greenstar 1800		Option					
Greenstar 2630		Option					
No monitor		Option					
TYRES							
19/45-17-10 PR (diam 850 mm)		Option					
500/50-17-10 PR (diam 940 mm)		Option					
500/55-20 (diam 1060 mm)		Option					
500/60-22.5 (diam 1185 mm)		Option					
TRACTOR IMPLEMENT AUTOMATION							
Stage I – Open/close function (requires John Deere tractor + E-SCV + Isobus)		Option					
Stage II – Open/close + automatic tractor stop function (requires John Deere AutoPower tractor + E-SCV+Isobus)		Option					
REQUIREMENTS							
Hydraulic		2 double acting SCV					
Minimum tractor power (hp)		100					
DIMENSIONS							
Weight		4200 kg	4300 kg	4500 kg	4400 kg	4500 kg	4700 kg
Transport width with stored gauge wheels		Less than 2.72 m					

Keeping you in the fast lane.

The 900 Series is built to withstand years of hard work in tough conditions. It's a John Deere: professional, friendly support from the finest dealer network in the industry is only a phone call away.

Our certified technicians are experts in on-site diagnosis and troubleshooting; when it's time for spare parts, your dealer offers unmatched parts support.



JohnDeere.com



This literature has been compiled for worldwide circulation. While general information, pictures and descriptions are provided, some illustrations and text may include finance, credit, insurance, product options and accessories not available in all regions. Please contact your local dealer for details. John Deere reserves the right to change specification and design of products described in this literature without notice.