

# VARIABLE CHAMBER ROUND BALERS

PREMIUM VERSATILITY



**JOHN DEERE**

NOTHING RUNS LIKE A DEERE



# EUROPEAN QUALITY GOES GLOBAL



V451G



V451M/V461M



V451R/V461R



C451R/C461R





Our round balers: efficient and easy to operate. Built by a team of ag experts and engineers in Arc-lès-Gray, France.



Our baler design is driven by global insight. Our manufacturing expertise has a tradition of over 60 years. Our 350,000 global customers love that.

Welcome to our new range of variable chamber round balers. Whether you are looking for sophistication or simplicity, you can now have the baler that's perfect for you and your operation.

## CONTENTS

Range and choice .....	4
Quality and reliability.....	6
R Series baler overview .....	7
V451R, V461R.....	10
Wrappers overview .....	14
C451R, C461R.....	16
G and M Series baler overview.....	18
V451M, V461M.....	20
V451G.....	24
Powergard™ Protection Plans .....	28
Crop packaging solutions .....	29
Specifications .....	30

# PERFORMANCE × DURABILITY = LOWEST COST PER BALE

## RANGE AND CHOICE

Whether you run a baling service for customers or produce your own bales, you want high quality bales at the lowest cost. All our balers have been designed for exactly this! The optimised crop-flow – common to all models – guarantees high working speeds and maximum productivity. Their rugged design and good reputation also ensures a high resale value. When you add the two together, John Deere gives you the lowest possible cost per bale.

-  Productivity
-  Straw
-  Hay
-  Silage



### C451R/C461R

- Performance in every detail
- Highly productive baler and wrapper combination
  - Capability to bale all crops
  - Durable construction





### V451R/V461R

High capacity. Heavy duty design.

- More than 30 tonnes/hour in straw
- Proven extra high density
- Premium specifications
- Excellent for all crops



### V451M/V461M

Multicrop versatility. Efficient operation.

- Regular to frequent, versatile use
- High specification build quality
- Multicrop performer
- 1.65/1.85 m max. bale diameter



### V451G

Easy and economical. Simple and robust.

- Ideal for regular use
- Excellent value
- Performs best with dry crops



# RAISE YOUR EXPECTATIONS

R SERIES BALERS OVERVIEW –  
QUALITY AND RELIABILITY





We never stop working to keep our balers ahead of the field. Welcome to a productive and rewarding baling future.



### **MORE PRODUCTIVITY**

- Extra stiff tines up to 6 mm diameter
- Industry-leading feeding system
- Up to 180 hp machine capacity



### **MORE OPERATIONAL UPTIME**

- Superb in both the driest straw and wettest silage
- Excellent unplugging system
- Minimal maintenance, easy installation



### **MORE ROBUSTNESS**

- Heavy duty, high volume design
- Oversized bearings, optimally sealed
- High spec materials: Hardox® steel rotor tines, stainless steel sheets and pickup strippers



### **MORE BALE WEIGHT**

- 1.21 m bale chamber width
- Up to 1.60/1.85 m maximum bale diameter
- Very high bale density – fully adjustable



### **MORE CROP QUALITY**

- From 40 mm knife spacing
- Individually protected, double heat treated knives
- Exceptionally low ground pressure and soil compaction
- Softcore as standard



### **MORE VERSATILITY**

- Cam track pick-up design
- 3 starting rolls in bale chamber
- Large diameter belt driven rolls



# THE ELEMENTS OF EXCELLENCE

## R SERIES BALERS OVERVIEW

High volume, high quality, premium features. The R series balers mean business, with the highest specifications available.



### 1 | FEEDING SYSTEM

High capacity, high performance 2.2 m wide feeders let you bale heavy windrows faster.

### 2 | DROP FLOOR

Hands-free unplugging. The wide hydraulic drop-floor clears even the worst blockage with ease.

### 3 | BALE CHAMBER

3 powered fixed rolls and 2 large diameter belt drive rolls inside the chamber for ultimate versatility.

### 6 | DRIVELINE POWER

The integrated driveline with its T shape gear box delivers up to 180 hp for maximum power and speed.

### 7 | NET SYSTEM

Easy to install from ground level, net rolls are switched out in less than a minute without tools.

### 8 | FLOTATION TYRES

A wide range of tyres up to 600/50R22.5 is available to minimise soil compaction and damage.





### TRUE MULTICROP VERSATILITY

No matter what crop you are baling, or how much of it – the R Series balers have it all covered. Heavy duty design and premium specifications make sure of it.

### 4 | TOP SPEED

Less than 5 seconds to unload a bale and close the rear curtain means more than 2 bales a minute.

### 5 | HEAVY DUTY

There's no compromise on quality: five tubular pick-up tine bars mounted on sealed ball bearings, HD Diamond Chains, Hardox® wear plate rotor tines and stainless steel pickup strippers.

### 9 | EASY MAINTENANCE AND ACCESS

Monobloc side gullwing doors with lights, automatic bearing greasing and chain auto-lube systems as well as a design that prevents crop accumulation reduces maintenance to the minimum.

### 10 | HIGH DENSITY

As verified in a third-party test by DLG, the density can reach close to 130 kg/m<sup>3</sup>\* in very dry straw conditions.

\*DLG Test Report 6112F, April 2013; [www.dlg-test.de](http://www.dlg-test.de)  
Hardox® is a trademark of the SSAB group of companies.

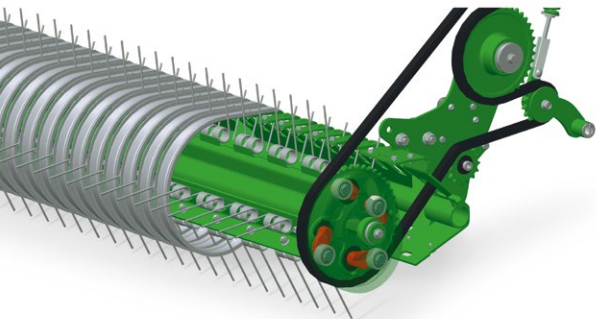


# BALE IN THE FAST LANE

V451R, V461R



Add a lot more bales to your day, even if you decide to call it a day a little earlier. Our revolutionary Fast Release System (FRS) in conjunction with the high capacity feeding system makes it possible, to produce more than 120 high quality bales per hour. Available with either the MaxiCut™ HC 25 Premium, the MaxiCut™ HC 13 Premium or RotoFlow HC Premium feeding systems, the V451R and V461R feature a full frame design in which the belts are linked to the frame, not the bale chamber. The independent MaxD bale chamber sits inside the frame so that its sides can move and slide out to create the fastest release system we've ever built.



## PREMIUM PICKUP

The five-tine bar 2.20 m heavy duty pickup with 6 mm tines will grab the heaviest swaths and deliver top tier productivity for large operations.

Select from a choice of high capacity premium rotors – non-cutting or cutting, with various knife sets and spacings from 40-80 mm.



RotoFlow HC Premium

MaxiCut™ HC 13 Premium

MaxiCut™ HC 25 Premium





### STAY SEATED

Fully control the V451R and V461R balers from the convenience of your cab with ISOBUS displays.



Two 576 mm wide endless belts provide high density and perfect bale coverage for all crops. A high efficiency belt tracking system ensures perfect belt guidance under any conditions. Three chamber rolls ensure perfect bale turning regardless of crop moisture content.



# HIGH SPEED DENSITY

## V451R, V461R

Rock-hard, super-dense and perfectly formed round bales of concentrated energy. That's what our variable chamber balers churn out, day after day, season after season.

## LESS THAN 5 SECOND UNLOADING – THREE TIMES FASTER

Featuring high speed tailgate cylinders and moving side sheets that stretch the bale chamber by 10 cm when unloading, these balers save one whole minute for every six bales.

## STRESS-FREE OPERATION

The V451R and V461R balers come with Tractor Baler Automation as standard. This award-winning feature monitors, regulates and coordinates baler functions via the ISOBUS connection. It's essential for stress-free operation during high-speed baling.



Fully automated baling process

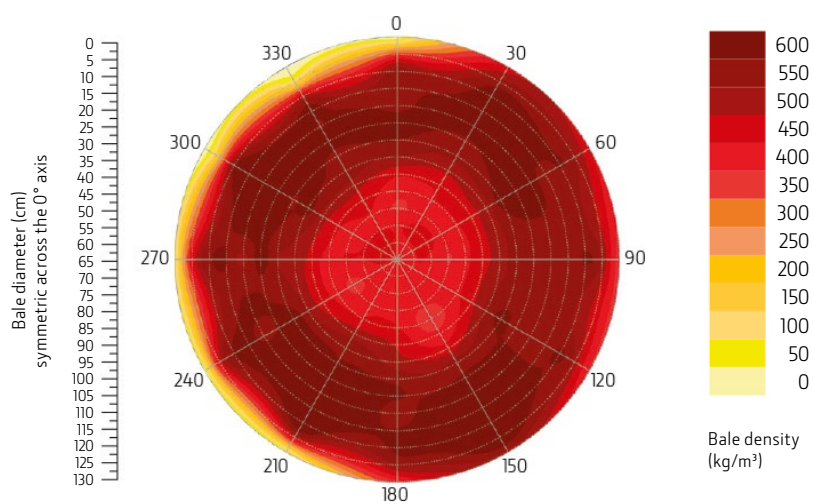
Re-engage reverse & start ▶ Filling chamber ▶ Bale size reached ▶ Stop tractor ▶ Automated tying ▶ Automated gate opening ▶ Bale ejection ▶ Automated gate closing







Overall, the round baler was able to convince by delivering a high bale density, a high throughput and a very homogeneous and cylindrical bale form, even for bales with a lower density. The uniform and symmetrical bale density distribution contributes to a good forage quality for silage bales.\*



Date:	23 June 2012
Harvested crop:	grass silage
Bale number:	12
Bale weight:	786 kg
Bale density:	505.8 kg/m³
Bale diameter:	127 cm
Bale width:	123 cm
Dry matter content:	68.8%
Density setting:	100%
Number of knives:	13
Driving speed:	14.3 km/h

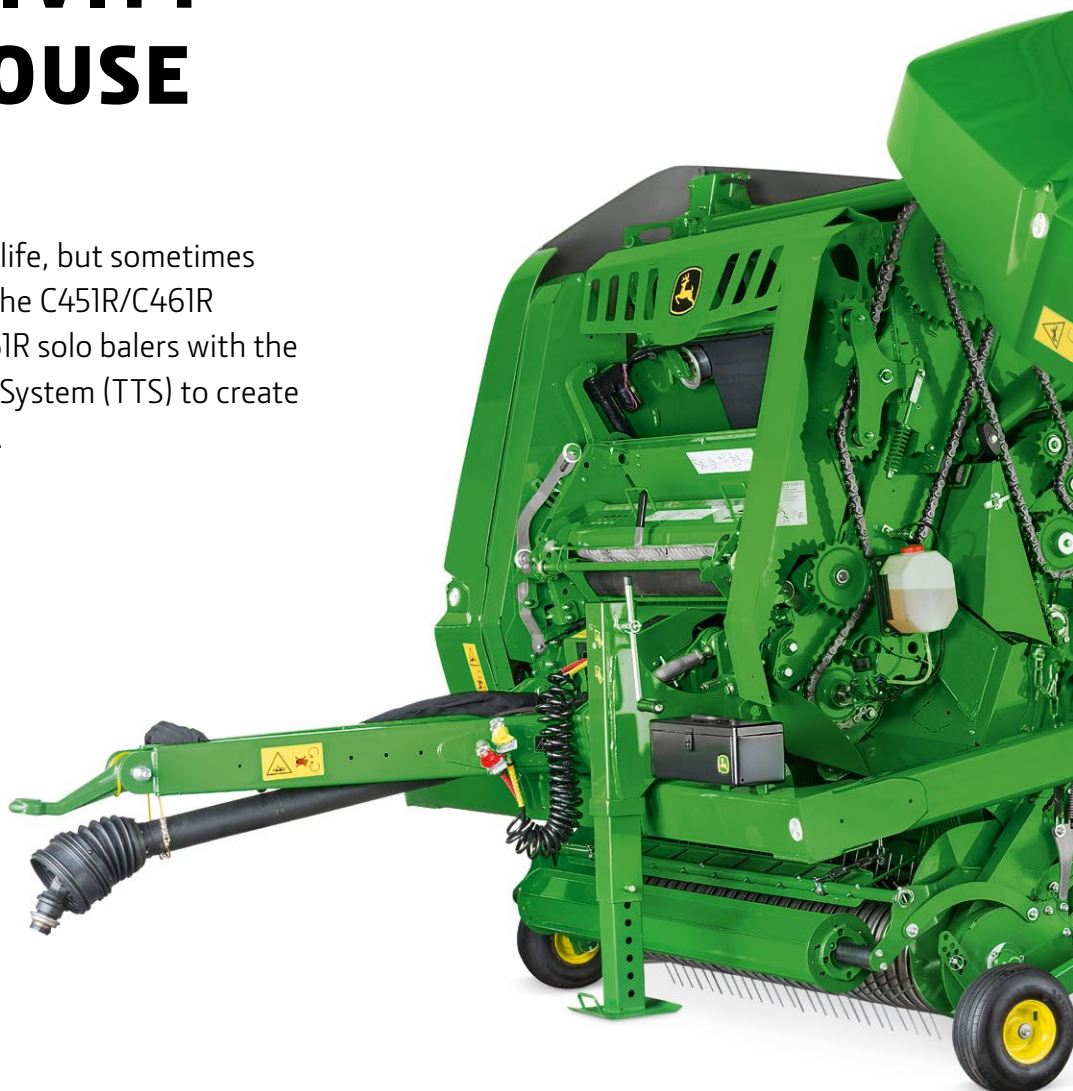
\*DLG Test Report 6112F, April 2013



# PRODUCTIVITY POWERHOUSE

## WRAPPER OVERVIEW

It does not happen often in life, but sometimes you can have it both ways: the C451R/C461R combine the V451R and V461R solo balers with the John Deere Transport Table System (TTS) to create the ultimate wrapping baler.



### 1 | FEEDING SYSTEM

High capacity, high performance 2.2 m wide feeders let you bale heavy windrows faster.

### 2 | DROP FLOOR

Hands-free unplugging. The wide hydraulic drop-floor clears even the worst blockage with ease.

### 6 | TTS

Even in hilly terrain, the transport table system provides efficient bale transfer that preserves bale shape.

### 7 | NET SYSTEM

Easy to install from ground level, net rolls are switched out in less than a minute without tools.





### ADDED VALUE

Everything that makes the V4XR Series balers stand out, plus high-performance wrapping: meet the C451R and C461R.

### 3 | BALE CHAMBER

3 powered fixed rolls and 2 large diameter belt driving rolls inside the chamber for true multicrop capacity.

### 4 | TOP SPEED

Less than 8 seconds to unload a bale and close the rear curtain means higher productivity.

### 5 | HEAVY DUTY

Five pick-up tine bars mounted on sealed ball bearings, HD Diamond Chains and Hardox® wear plate rotor tines.

### 8 | TYRES

Two sets of tyres are available: 500/45-22.5 keep machine width below 3 m and 620/40R22.5 minimise compaction.

### 9 | QUICK CONVENIENCE

Speedy reloads with our innovative film roll storage system. Easy maintenance access with gullwing style doors.

### 10 | FAST WRAPPING ARM

High wrapping arm speed allows the wrapper components to match baler productivity, avoiding time loss during baling process.



# ON THE SHOULDERS OF GIANTS

C451R, C461R

Do you need to produce several thousand bales a year or do you have short harvesting windows? The C451R and C461R variable chamber balers are your powerful workhorses for that.

The C451R/C461R wrappers build upon these and add high performance wrapping. They feature the fastest unloading times and a high-speed wrapping arm unit. In conjunction with the high capacity feeding system and our advanced bale chamber technology they'll push your baling capacity way beyond current limits, whether you're baling silage, hay or straw.



## RAPID FILM ROLL LOADING

This John Deere system lets you maintain high productivity levels with fast and easy film roll reloading.





## SECURE TRANSFER

The transport table receives the bale and efficiently transfers it to the wrapping system. The deep table guides the bales carefully, preserving their shape, and works flawlessly even on steep slopes.



## SIDE CONTROL PANEL

Practical design: you can easily control the table, film storage and knives from the conveniently located side control panel.



## GREASING SYSTEM

Our greasing system comes as standard on the C451R/C461R. The 1,200 g capacity tank holds plenty, while greasing is accurately managed from your monitor.



# COMPACT BALERS, BIG VALUE

## G AND M SERIES BALERS OVERVIEW

The G and M Series balers will always rise to the occasion, especially in dry crops such as hay and straw. Robust and compact, great for the majority of crops and conditions, and will retain their value for a long time.



### 1 | FEEDING SYSTEM

Wide, high capacity, high performance pick-ups let you bale heavy windrows faster.

### 2 | ROTOR

High Capacity Rotor: 480 mm diameter converging auger, welded on rotor tube for max intake performance without plugging.

### 3 | CHAMBER SIZE

Adjustable bale diameter in a 1.21 m chamber width for maximum weight.

### 6 | SIMPLIFIED DRIVELINE

T shaped main gear box drives only 4 chains. This straightforward design is quick and easy to maintain.

### 7 | NET SYSTEM

Easy to install from ground level, net rolls are switched out in less than a minute without tools.

### 8 | TYRES

Wide flotation tyres minimise soil compaction and damage.





## **YOUR BUSINESS, YOUR CHOICE**

Whether you choose a G or an M Series baler – you're picking a winner that's perfect for your specific requirements.

### **4 | CHAMBER TECHNOLOGY**

Three powered fixed rolls and large diameter belt driving roll for outstanding multicrop performance.

### **5 | HEAVY DUTY MATERIALS**

High spec materials featuring components like Hardox® wear plate tines, for exceptional reliability.

### **9 | EASY MAINTENANCE**

Excellent access and easy maintenance features like long greasing intervals and chain auto-lube system.

### **10 | LOWER COSTS**

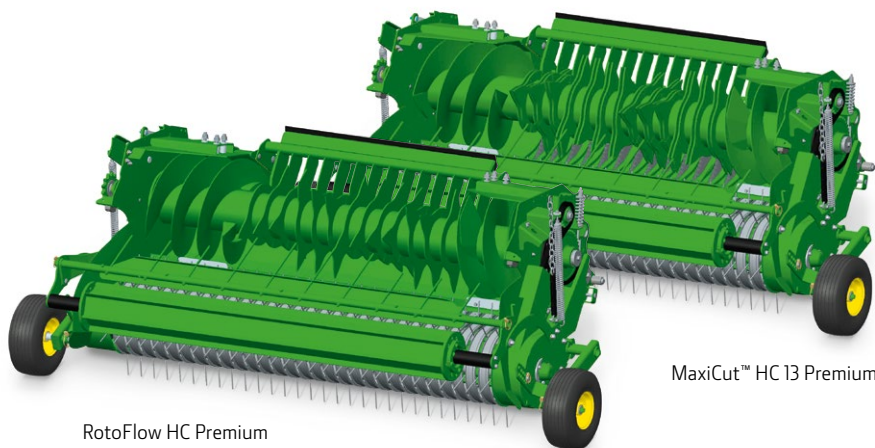
High density bales that stay in shape – savings of up to €0.80/t of hay baled.

# MULTICROP VERSATILITY. EFFICIENT OPERATION.

V451M, V461M



True multi-crop baling where speed is essential. Packed with features it's a high value package that will perform reliably, year after year.



RotoFlow HC Premium

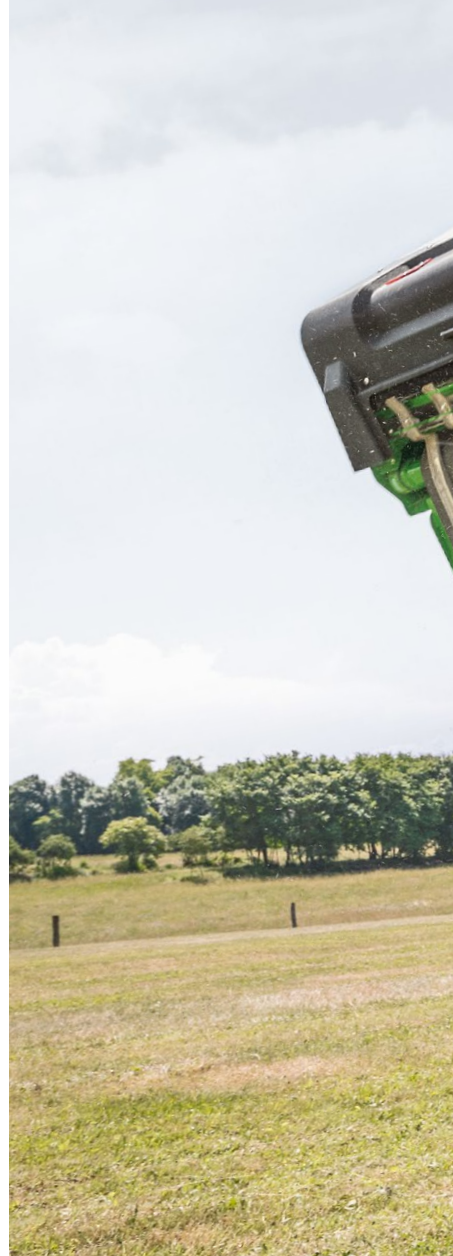
MaxiCut™ HC 13 Premium

## CHOICE OF ROTORS

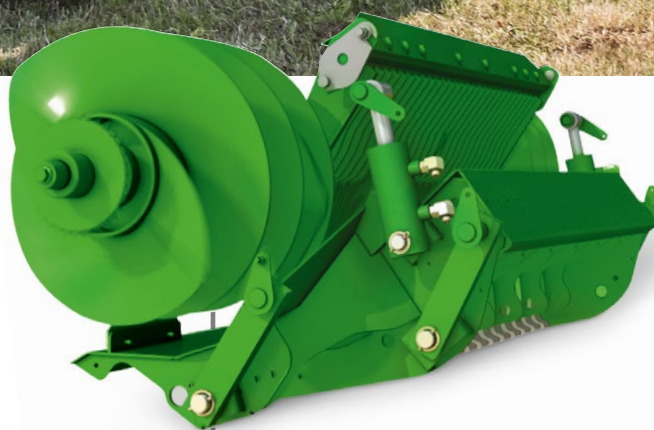
RotoFlow HC Premium is a rotary feeder with durable Hardox® tines for even crop distribution, wet or dry. MaxiCut™ HC 13 Premium is a universal solution for silage, with Hardox® tines on the rotor that sweep the crop against the individually spring loaded 80 mm spaced knives. A second large diameter belt driven roll facilitates bale rotation in wet grass silage conditions.

This second belt is also available as an option with RotoFlow HC Premium.

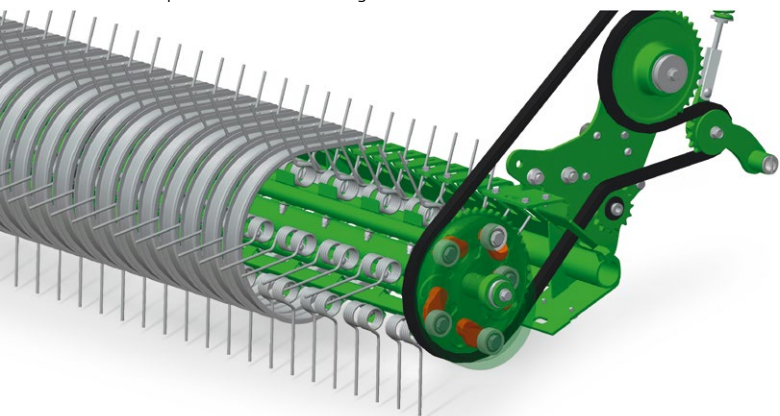
A MaxiCut™ HC25 Premium with longer knife sharpening intervals and reduced maintenance is available as an option in selected countries. Please check with your dealer for details.







Available as an option for the most demanding users, the five-tine bar premium 2.20 m pickup features 6 mm diameter tines, tubular tine bars and stainless steel strippers to deliver peerless performance over a long life.



## EASY UNPLUGGING

The unplugging system operates across the full width of the baler. It will even clear blockages at the converging augers, so you can start baling again in not time at all.



# STAY FOCUSED

## V451M, V461M

Days can get long during the baling season and there is no time to waste. That's why we have integrated several convenience features that allow you to focus on what counts: producing perfect bales as quickly as possible.

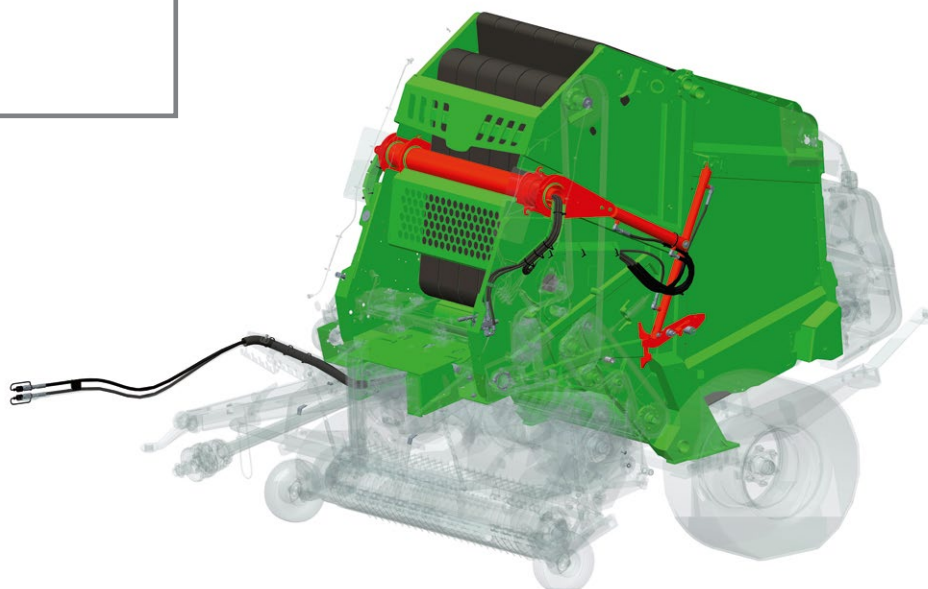


### MONITOR CHOICES

The V451M/V461M can be operated and controlled with a wide range of available monitors, such as Baletrak™ Plus or Implement Display 1100. For even more convenience, choose from our ISOBUS compatible monitors.



In the V451M and V461M, a dedicated pair of cylinders applies force to the density arm while mechanical hooks firmly lock the tailgate in the closed position. Damper cylinders minimise shocks at the end of the motion.







Automatic greasing by cartridge is available as an option. All greasing points are centralised on a bank as standard.

Easy to install from ground level, net rolls are switched out in less than a minute without tools. Even in the dark – bright, integrated LED lighting makes working at night just as comfortable as during daylight hours.

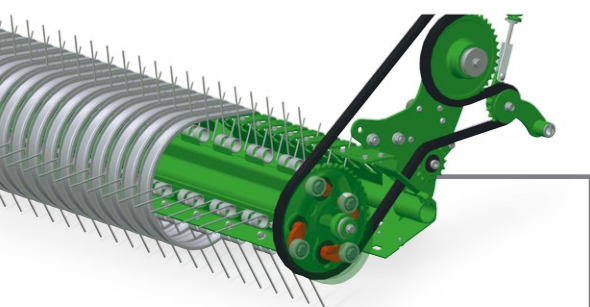


# ROBUST AND STRAIGHTFORWARD

V451G

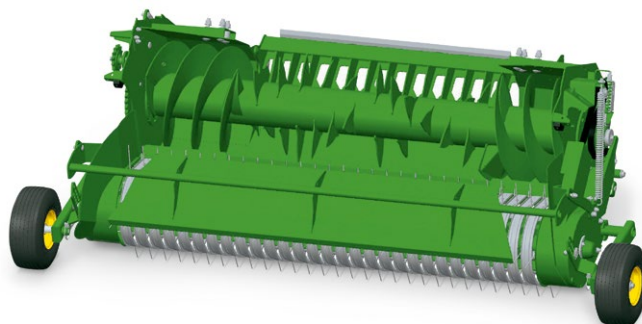


The V451G will always rise to the occasion, especially in dry crops such as hay and straw. A reliably steady, low volume, day to day use performer, it will step up to deliver speedy high capacity performance when needed.



## PICK-UP

The 2.2 m cam track design pickup easily copes, even with very wide and tough windrows.



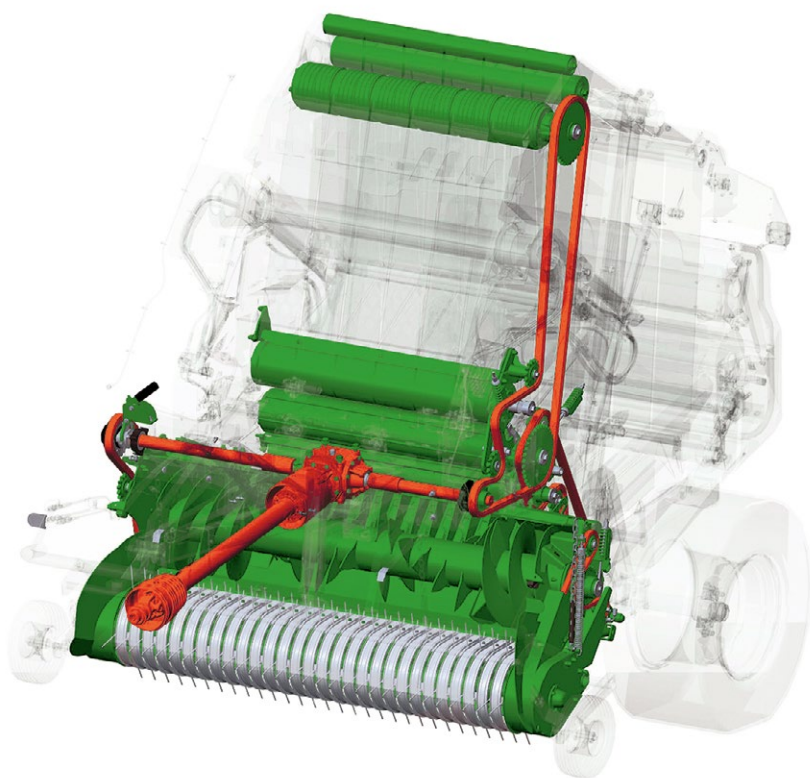
Rust-resistant galvanised pickups with Hardox® rotor tines for extra durability.





All greasing points are grouped in centralised banks for easy access.

Less is more. The straightforward design with only 4 chains means exceptional durability.







# FROM GOOD TO GREAT

V451G

Like every variable chamber baler, the V451G baler features a formation chamber with flat belts and a belt tensioner, but that's where good ends and great begins. The extra heavy duty welded frame is built for the long haul, the feeding system is equipped with a larger diameter pick-up for thorough, speedy pickup, plus the specially designed bale chamber provides superior control of bale dynamics.

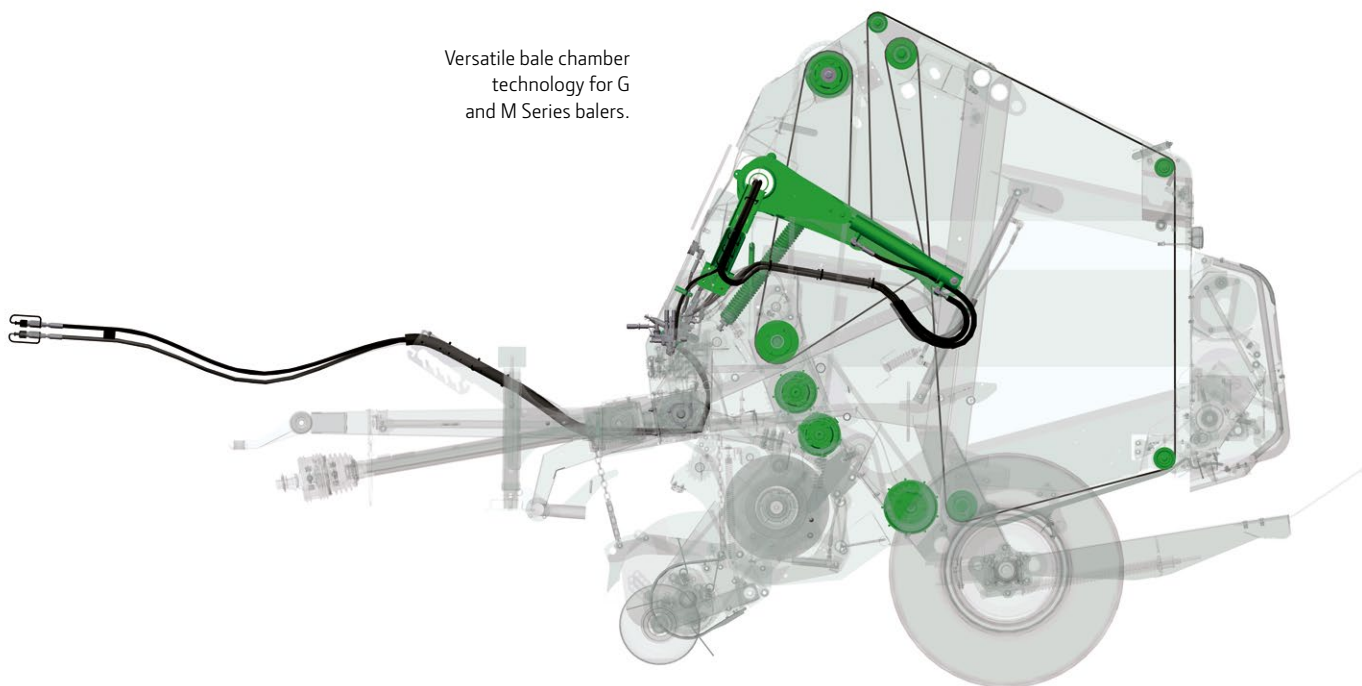


## HEAVY DUTY COMPONENTS

50 mm bearings with enhanced seal protection extend machine life and give you peace of mind.



Versatile bale chamber technology for G and M Series balers.



## EASY BALE STARTING

Reliable, easy bale starting no matter which crop you're baling.

## PROVEN BELT SYSTEM

Six belts with perfect tracking for all crops and conditions. Lacers allow quick in-field repair.

## HIGH BALE WEIGHT

1.65 m maximum bale diameter in a 1.21 m wide chamber allows you to maximise bale weight for straw or hay.

## STANDARD SOFTCORE SYSTEM

Keeps the bale centre soft, which allows the crop to breathe and dry more efficiently.

## EVEN TENSION

High density for every bale diameter thanks to a dedicated, independent pair of density cylinders.

# FIXED MAINTENANCE COSTS

POWERGARD™ PROTECTION PLUS



Powergard™ aftercare packages let you accurately budget your maintenance costs and protect you from unexpected repair costs. You simply pay a fixed fee for easy budgeting and choose the level of cover you want. PowerGard™ Protection Plus contracts also include an annual Expert Check inspection for your baler.

## POWERGARD™ MAINTENANCE

Covers all scheduled servicing using only John Deere parts.

## POWERGARD™ MAINTENANCE

## POWERGARD™ PROTECTION PLUS

It covers almost every component from belts and hoses to the pick-up tines.





# BALE VALUE BOOSTERS

## CROP PACKAGING SOLUTIONS

John Deere crop packaging products enhance the performance of your baler, and provide you with the very best John Deere protection for your bales.

### XTRANET™

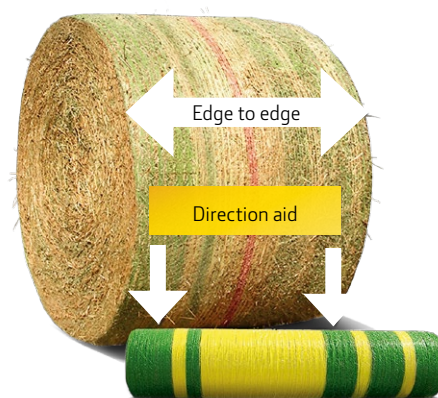
Bale all day for less. Designed specifically for your baler, with easy loading system. Strong, long and wide.

### COVEREDGE™ – THE ORIGINAL

The authentic leading edge protection. The net covers the bale edge, eliminating bale “shoulders”.

### XTRAFILM™ STRETCHWRAP

Clings and protects better, now longer. Powerful airtight seal, strong UV inhibitors and exceptional resistance to punctures and tears.



## SPECIFICATIONS

	V451G	V451M	461M
BALES			
Diameter (m)	1.0-1.65	1.0-1.65	1.0-1.85
Width (m)	1.21	1.21	
PICKUP			
Width (m)/(m DIN)	2.20 m (2.12 m DIN)	2.00 m (1.86 m DIN) and 2.20 m (2.12 m DIN)	
Tines bars	4	4 or 5 (2.20 m only)	
Crop compressor	Compressor shield or compressor roll	Compressor shield or compressor roll	
Gauge wheels	Fixed	Fixed or castor action	
ROTOR FEEDER			
Type / number of knives	RotoFlow HC / No knife	RotoFlow HC Premium / No knife	
	–	MaxiCut™ HC 13 Premium / 13 knives	
	–	MaxiCut™ HC 25 Premium / 25 knives (selected countries)	
Knife set	–	0/13 - 0/12/13/25	
Unplugging system	Manual wrench + rotor clutch	Full width drop floor with parallel kinematic	
BALE CHAMBER			
Type	6 laced belts + 2 front rolls + starter roll	6 laced belts + 2 front rolls + starter roll	
Belts driving rolls	1	1 or 2 (option with rotoFlow HC premium, standard with MaxiCut™)	
Density setting	From the baler	From the baler (BaleTrak™ plus) or from the monitor (Implement Display 1100 / no display)	
Softcore	0% density/diameter adjustable from the monitor	0% density/diameter adjustable from the monitor (Baletrak™ plus) or density and diameter fully adjustable from monitor (Implement Display 1100 / no display)	
NET BINDING			
Net system	Standard – on baler tailgate Fully adjustable from monitor	Standard – on baler tailgate Fully adjustable from monitor	
Boarding capacity	2 rolls	2 rolls	
B-Wrap	–	Option	
TWINE BINDING			
Twine system	Option – 2 independent arms	Option – 2 independent arms	
Boarding capacity	8 twine spools	8 twine spools	
BALE EJECTION			
Ejection	Traditionnal tailgate	Traditional tailgate	
Bale dumping	Option – unloading ramp	Option – unloading ramp	
Tractor Baler Automation	–	–	
POWER TAKE OFF			
PTO security	Camclutch	Camclutch	
PTO speed and capacity	540 RPM – 102 kW	540 RPM – 113 kW	
DISPLAYS			
Type	BaleTrak™ Easy or BaleTrak™	Baletrak™ Plus or Implement Display 1100 or no monitor	
MAINTENANCE			
Automatic chain lubrication	Standard	Standard	
Grease bank	Standard	Standard	
Automatic bearings greasing	–	Option – cartridge system	
WRAPPING SYSTEM			
Bale transfer	–	–	
Wrapping arms	–	–	
Dumping mode	–	–	
Film boarding capacity	–	–	
TYRES			
Tyre size	15/55-17	15/55-17	
	500/50-17	500/50-17	
	–	500/55-20	
	–	–	
MINI POWER REQUIREMENT			
kW (hp)	100 hp	100 hp (no knife – knives not engaged)	
	–	110 hp (13 knives engaged)	
	–	–	



V451R	V461R	C451R	C461R
0.8-1.60	0.8-1.85	0.8-1.60	0.8-1.85
1.21		1.21	
2.20 m (2.12 m DIN)		2.20 m (2.12 m DIN)	
5		5	
Compressor roll		Compressor roll	
Fixed or castor action		Fixed or castor action	
RotoFlow HC Premium / No knife		RotoFlow HC Premium / No knife	
MaxiCut™ HC 13 Premium / 13 knives		MaxiCut™ HC 13 Premium / 13 knives	
MaxiCut™ HC 25 Premium / 25 knives		MaxiCut™ HC 25 Premium / 25 knives	
0/13 or 0/12/13/25		0/13 or 0/12/13/25	
Full width drop floor with parallel kinematic		Full width drop floor with parallel kinematic	
2 endless belts + 2 front rolls + starter roll		2 endless belts + 2 front rolls + starter roll	
2		2	
From the display		From the display	
Density and diameter fully adjustable from monitor		Density and diameter fully adjustable from monitor	
Standard – on baler front Fully adjustable from monitor		Standard – on baler front Fully adjustable from monitor	
3 rolls		3 rolls	
Option		Option	
Option – 2 independent arms		–	
10 twine spools		–	
Fast Release System with moving side shields		Fast Release System with moving side shields	
Option – unloading ramp		Option – unloading ramp	
Standard		Standard	
Camclutch		Camclutch	
540 RPM – 124 kW		540 RPM – 124 kW	
1,000 RPM – 136 kW		1,000 RPM – 136 kW	
(standard with MaxiCut™ HC 25 Premium)		(standard with MaxiCut™ HC 25 Premium)	
Implement Display 1100 or Greenstar™ Display 4240 or no monitor		Greenstar™ Display 4240 or no monitor	
Standard		Standard	
Standard		–	
Option – Tank system		Standard – Tank system	
–		Table Transfer System with optimized speed	
–		2 arms with optimised speed	
–		Manual or Automatic – optional bale tilt	
–		2 x 750 mm rolls on wrapping arms + 10 rolls storage	
–		Tandem axle	
500/55-20		500/45-22.5	
520/55R22.5		620/40R22.5	
600/50R22.5		–	
100 hp (no knife – knives not engaged)		100 hp (no knife – knives not engaged)	
110 hp (13 knives engaged)		110 hp (13 knives engaged)	
120 hp (25 knives engaged)		120 hp (25 knives engaged)	

# NOTHING RUNS LIKE A DEERE™

Chances are that when you need us, you need us right then and there. For advice, to solve a problem, or for a part. Reach out, we'll be there with technicians who are factory trained, ready to go to work for you, using only genuine John Deere parts and products.



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