

# VARIABLE CHAMBER ROUND BALERS

DEDICATED TO 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.

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# DEDICATED TO VERSATILITY

## RANGE AND CHOICE

Whether you are a contractor with a diverse set of customers, or if your own operation's size and structure requires versatility, we've built a baler just for you. Whether you produce straw, hay, haylage or silage – a lot of one, or some of everything, you can pick your winner here. The G, M and R balers are the versatile round chamber balers you need.



Productivity



Straw



Hay



Silage



### C451R/C461R

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





### V451G

Easy and economical. Simple and robust.

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



### V451R/V461R

High capacity. Heavy duty design.

- More than 30 tons/hour in straw
- Proven extra high density
- Premium specifications
- Excellent for all 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 one of the most productive and rewarding baling experiences available today.



### **MORE BALE WEIGHT**

- 1.21 m bale chamber width
- Up to 1.65/1.85 m maximum bale diameter
- Very high bale density – 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 drive rolls



### **MORE PRODUCTIVITY**

- High capacity pickup on all balers
- Industry-leading feeding system
- Up to 180 hp machine capacity



### **MORE ROBUSTNESS**

- Oversized bearings, optimally sealed
- Cast T shape gearbox teamed with simple driveline
- High spec materials: Hardox® steel rotor tines, stainless steel sheets and pickup strippers



### **MORE OPERATIONAL UPTIME**

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

# 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 bale chamber width for maximum bale weight.

### 6 | SIMPLIFIED DRIVELINE

T shaped main gear box drives only 4 chains – straightforward design to facilitate quick and easy maintenance.

### 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 exceptional 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.

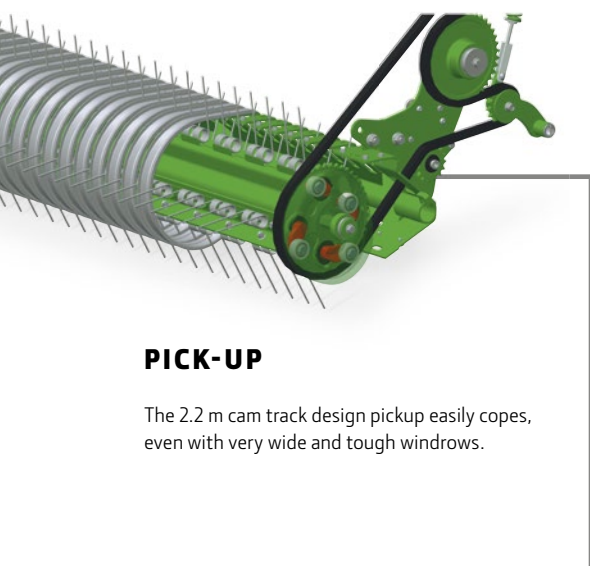


# ROBUST AND STRAIGHTFORWARD

V451G

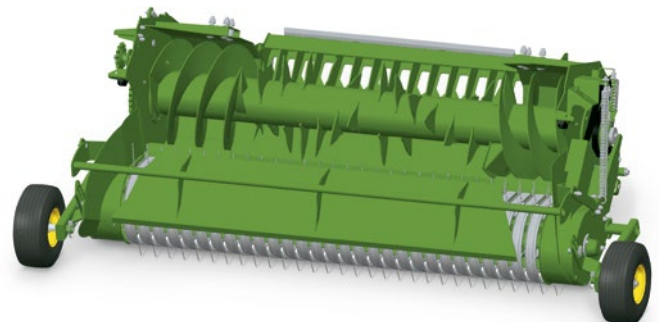


The V451G will always rise to the occasion, especially in dry crops such as hay and straw. A reliably steady, low volume, day to day use performer, it will step up to speedy high capacity performance.



## PICK-UP

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



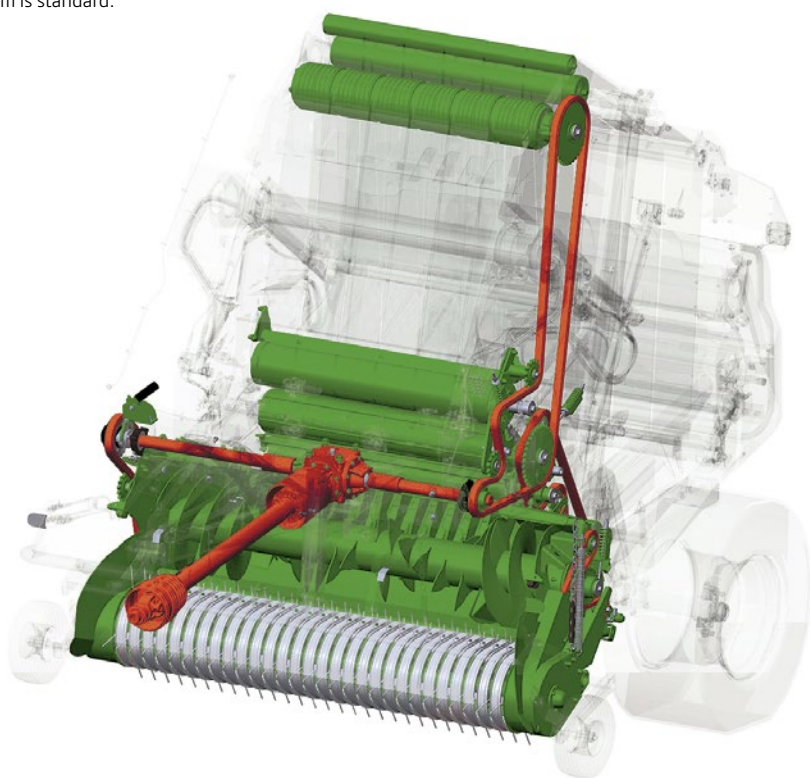
Rust-resistant galvanised pickups with Hardox® rotor tines for extra durability.





We assembled all greasing points in centralised banks for easy access. The automatic chain lubrication system is standard.

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







# FROM GOOD TO GREAT

V451G

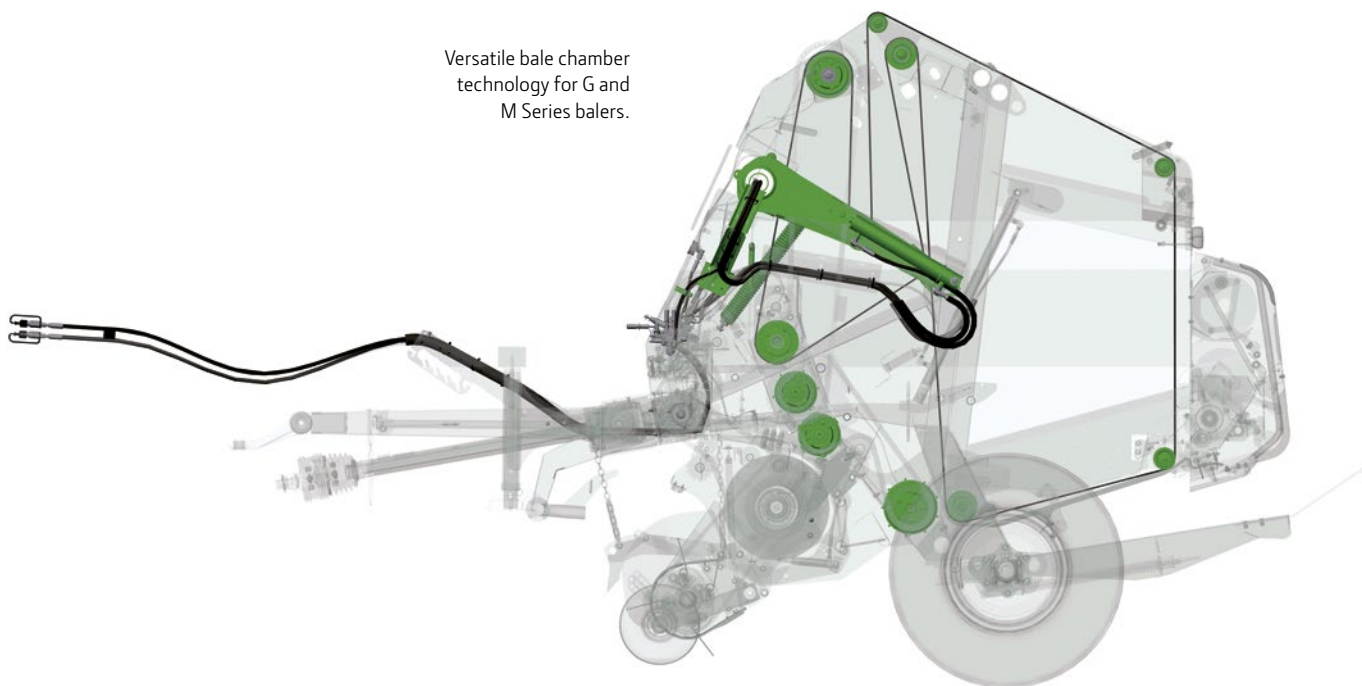
Like every variable chamber baler, the V451G baler features a formation chamber with flat belts and a belt tensioner, but that's where good ends and great begins: An extra heavy duty welded frame that's built for the long haul, a feeding system with a larger diameter pick-up for thorough, speedy pickup,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

## HEAVY DUTY COMPONENTS

50 mm bearings with enhanced seal protection for extended machine life and 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.



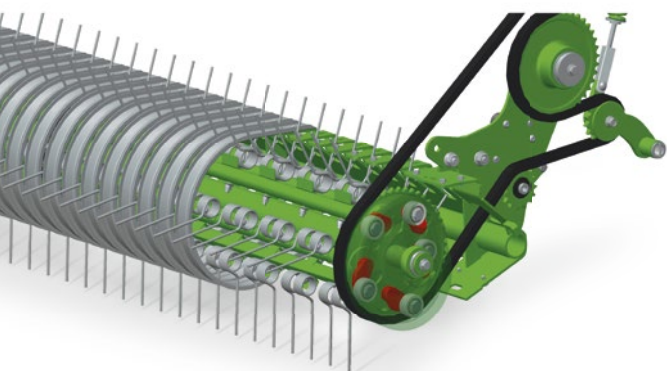
# MULTICROP VERSATILITY. EFFICIENT OPERATION.

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.

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.



## ROTORS – YOUR CHOICE

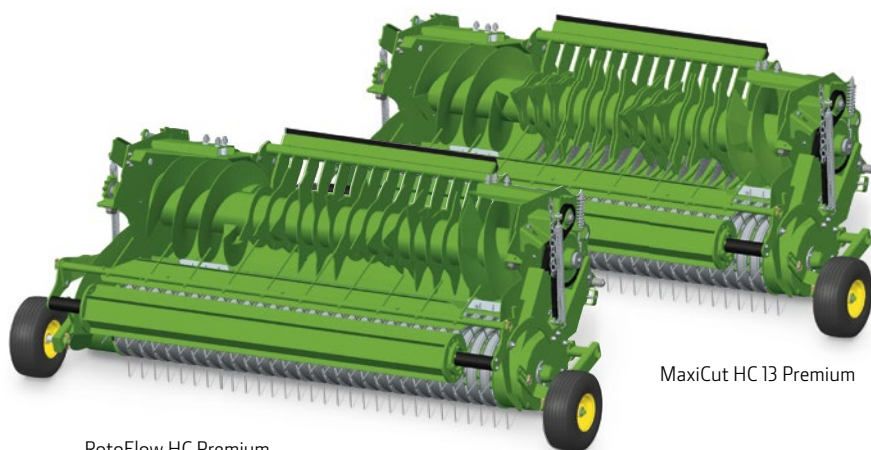
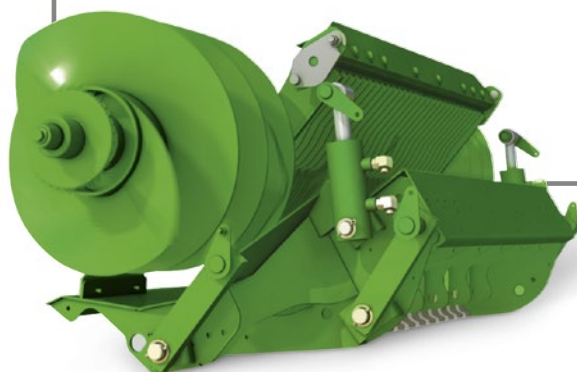
RotoFlow HC Premium is a rotary feeder with durable Hardox® tines for even crop distribution, wet or dry. MaxiCut HC 13 Premium is a universal solution for silage, with Hardox® tines on the rotor that sweep the crop against the individually spring loaded 80 mm spaced knives. Standard with MaxiCut HC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





## DROP FLOOR

The standard drop-floor unplugging system uses a parallelogram mechanism to eliminate clogging on converging augers.



RotoFlow HC Premium

MaxiCut HC 13 Premium



# 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.

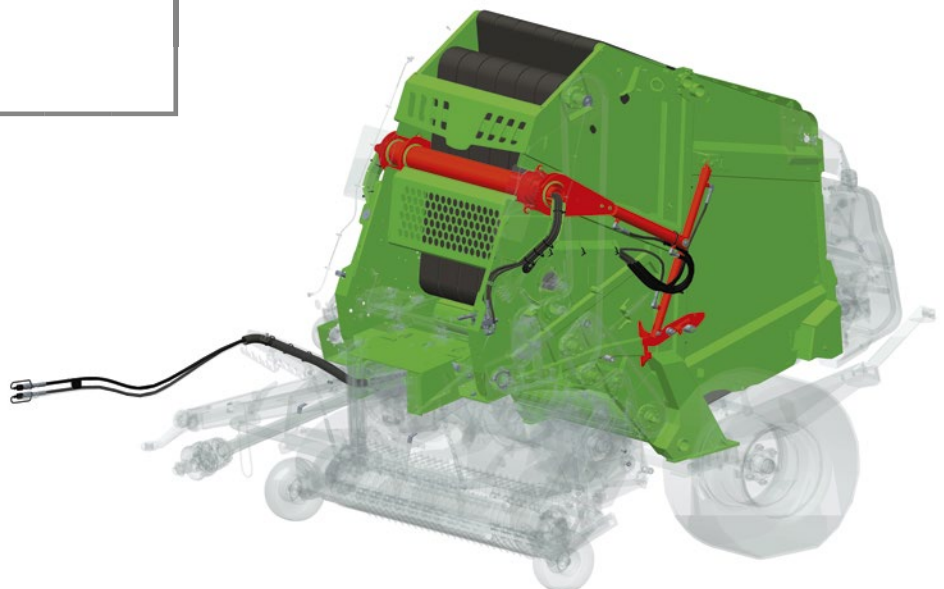


### MONITOR CHOICES

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 centralized 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.

# 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

Choice of tyres up 600/50-22.5 are 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

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, crop accumulation prevention.

### 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.

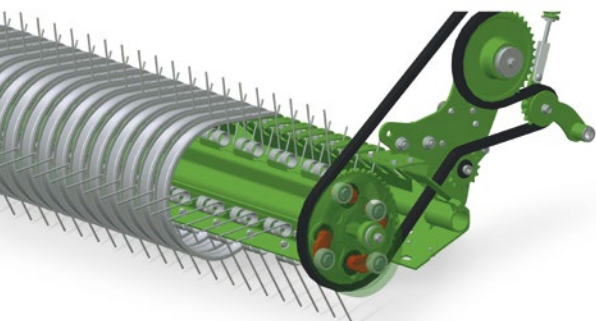
\*DLG Test Report 6112F, April 2013; [www.dlg-test.de](http://www.dlg-test.de)  
Hardox® is a trademark of the SSAB group of companies.

# BALE IN THE FAST LANE

V451R, V461R



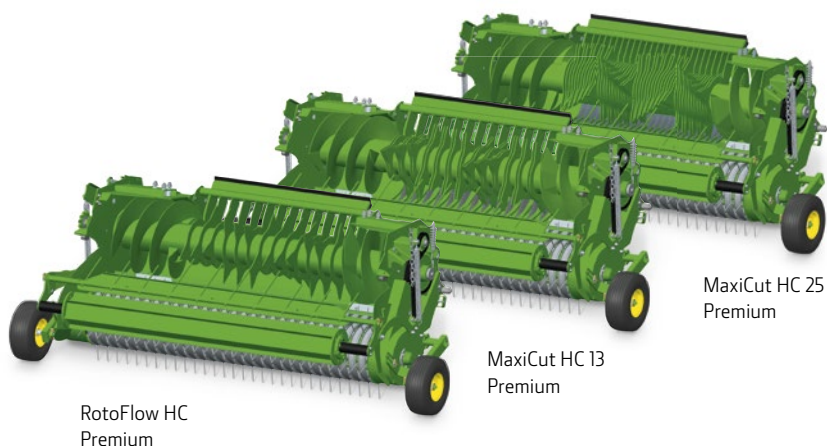
Add a lot more bales to your day, even if you call it a day a little earlier – our revolutionary Fast Release System (FRS) in conjunction with the high capacity feeding system makes it possible, to the tune of more than 120 bales per hour. Available with either the MaxiCut HC 25 Premium, the MaxiCut 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 delivers 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.

### 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 allows monitoring, regulating and coordinating baler functions from a tractor equipped with Tractor Implement Automation via the ISOBUS connection. Essential for stress-free operation during high-speed baling.

Fully automated baling process

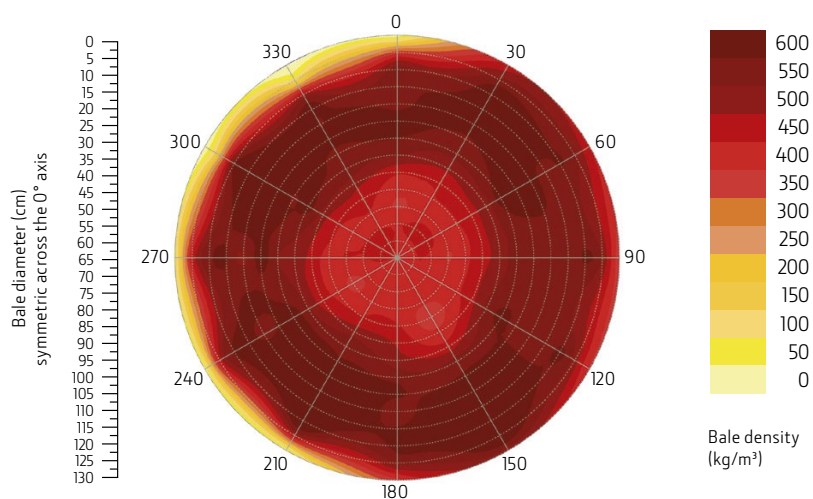
Re-engage reverse & start ▶ Filling chamber ▶ Bale size reached ▶ Stop tractor ▶ Automated tying ▶ Automated gate opening ▶ Bale ejection ▶ Automated gate closing







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:	June 23, 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 minimize compaction.

### 9 | QUICK CONVENIENCE

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

### 10 | FAST WRAPPING ARM

40 rpm produces high wrapping system capacity with maximum productivity of up to 92 bales/h.

# 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 40 rpm 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.

# 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.

### B-WRAP

Barn-quality bales without the barn: Outside, our John Deere B-Wrap protects your valuable crop from rain and snow, and helps reduce ground moisture. B-wrap is an exclusive John Deere product.

### 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.



The secret behind B-Wrap is an innovative material featuring the SCM technology – keeping a bale dry, and moisture and mould out.

- 1 | Water Vapour Escapes
- 2 | Blocks Ground Moisture
- 3 | Water & Snow Resistance
- 4 | UV Protection



John Deere B-Wrap

XtraNet, CoverEdge





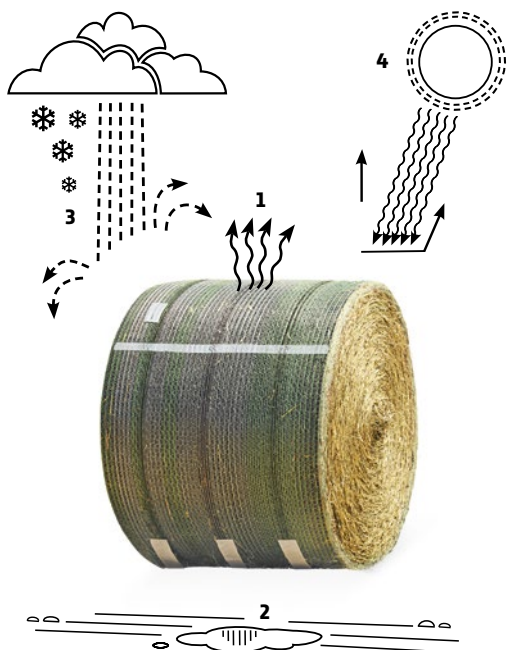
## OPTIMISING PRODUCTIVITY

### CONNECTED FARM MANAGEMENT

The John Deere Operations Center on MyJohnDeere.com is the central platform for connecting your machines, operators and fields. It's easy to use, easily accessed from anywhere, on any device and lets you view, edit and share data for full fleet connectivity.

MyJobConnect is our easy-to-use job management solution which connects to the John Deere Operations Center. It includes the MyJobsManager and MyJobs mobile apps.

MyJobConnect Premium also includes the MyLogistics app for enhancing overall operational efficiency.



## SPECIFICATIONS

	V451G	V451M	461M
<b>BALES</b>			
Diameter (m)	1.0-1.65	1.0-1.65	1.0-1.85
Width (m)	1.21	1.21	
<b>PICKUP</b>			
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	
<b>ROTOR FEEDER</b>			
Type / number of knives	RotoFlow HC / No knife	RotoFlow HC Premium / No knife	
	–	MaxiCut HC 13 Premium / 13 knives	
	–	–	
Knife set	–	0/13	
Unplugging system	Manual wrench + rotor clutch	Full width drop floor with parallel kinematic	
<b>BALE CHAMBER</b>			
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 HC 13 Premium)	
Density setting	From the baler	From the baler (BaleTrak plus) or from the monitor (Implement Display 1100)	
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)	
<b>NET BINDING</b>			
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	
<b>TWINE BINDING</b>			
Twine system	Option – 2 independent arms	Option – 2 independent arms	
Boarding capacity	8 twine spools	8 twine spools	
<b>BALE EJECTION</b>			
Ejection	Traditionnal tailgate	Traditionnal tailgate	
Bale dumping	Option – unloading ramp	Option – unloading ramp	
Tractor Baler Automation	–	–	
<b>POWER TAKE OFF</b>			
PTO security	Camclutch	Camclutch	
PTO speed and capacity	540 RPM – 102 kW	540 RPM – 113 kW	
<b>DISPLAYS</b>			
Type	BaleTrak Easy or BaleTrak	Baletrak Plus or Implement Display 1100 or no monitor	
<b>MAINTENANCE</b>			
Automatic chain lubrication	Standard	Standard	
Grease bank	Standard	Standard	
Automatic bearings greasing	–	Option – cartridge system	
<b>WRAPPING SYSTEM</b>			
Bale transfer	–	–	
Wrapping arms	–	–	
Dumping mode	–	–	
Film boarding capacity	–	–	
<b>TYRES</b>			
Tyre size	15/55-17	15/55-17	
	500/50-17	500/50-17	
	–	500/55-20	
	–	–	
<b>MINI POWER REQUIREMENT</b>			
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		Standard	
Option – Tank system		Standard – Tank system	
–		Table Transfer System with optimized speed	
–		2 arms with optimized speed (up to 40 RPM)	
–		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	
600/50-22.5		–	
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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