L1500 LARGE SQUARE BALERS







WHICH MACHINE FOR YOUR OPERATIONS?

L1524 L1533 L1534









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Large Square Baler production line for the North American market at the John Deere facility in Ottumwa, Iowa, USA.



Straw



Hay



Silage

John Deere L1500 balers perform superbly in all conditions, from extremely dry to very wet.

High-capacity pickup and rotor

2.3 m pickup widths fit the widest windrows. Rotoflow and MaxiCut versions available

Dual blower system

Air forced through the knotter system at 200 km/h keeps the system clean all day

Double-tie knotters

Allow higher density without additional wear on the knotters

Easy access platform and fully opening doors

Provide the easiest possible access to all working components

Single-row twine box

Stores 30 twine spools in a pivotable, sealed compartment. Problem-free adjustment of all day-to-day requirements

The new shape of dense baling

Within the sleek outline of the new L1500 is everything you need to produce dense, high quality, square bales.

The heart of the machine is the combination of a long bale chamber and high capacity plunger that work together to produce bales of constant density in any crop. Together with the bale chamber, double tie-knotters and high performance blower system, the production of perfectly formed bales is assured.





Bale weight is displayed on the monitor (optional)



Bale drop sensor (optional)



The last bale to be produced is cleanly ejected by the hydraulic fork



Single axle version also available

Simple drive design and cam clutch protection

Effective overload control and significantly reduced downtime

6

Easy access and maintenance

7

Knives cassette, wideopening bottom door, centralised automatic greasing system

Multi-crop packer and simple feeding system

Multi-crop packer and simple feeding system ensure uniform and dense bales in all crops and any crop conditions

Individual hydraulic knife protection

Ensures constant, regular load protection for each knife

ISOBUS control display

Function monitoring, machine setup, electronic twine tracking system, daily work record

8 9

LARGE BALE CHAMBER

PERFECTLY FORMED BALES

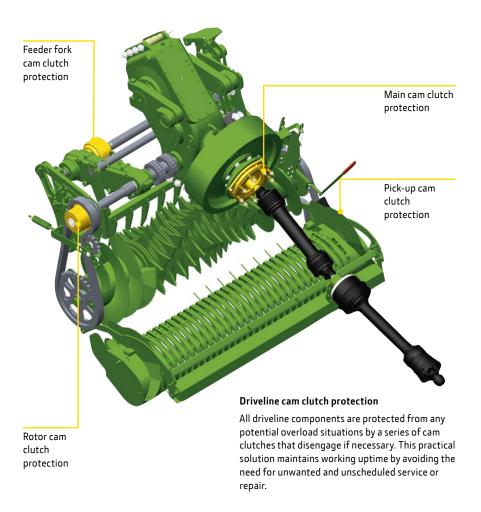


SIMPLY DEDICATED TO DENSITY

Density is vital to making high quality bales that are easy to handle, transport and stack and retain their structural integrity and consistent dimensions.

MORE EFFICIENCY AND A LONGER WORKING LIFE

The driveline of our L1500 Large Square Balers is a model of engineering simplicity. The design of the gearbox and drive shaft delivers a constantly smooth and synchronised motion, enhanced by the stabilizing effect of the large flywheel. Frictional losses are minimised, so the system works at optimum efficiency levels and component life is consequently extended. Simplicity also has distinct advantages when servicing or maintenance are required.





HERE'S HOW JOHN DEERE L1500 LARGE SQUARE BALERS FUNCTION:



The single-feeder fork transfers crop material from the inline rotor into the pre-compression chamber to produce crop flakes with a consistent density.



When the chamber is full, pressure is exerted on the wedges until the pressure is overcome, triggering an extended stroke of the feeder fork.



3 The pre-compressed flakes are propelled into the bale chamber to be compressed by the plunger to form a truly dense bale.

THE BALER WITH A VORACIOUS APPETITE

Whatever the crop, our high capacity feeder system devours large windrows at an impressive speed, making the L1500 Series a benchmark for in-field productivity.

Wide pickups matched to high capacity rotors, aligned with huge converging augers, guarantee the consistently uniform crop flow. This is essential for dense, regularly shaped bales. Crop material is evenly concentrated towards the centre of the rotor, whatever the size and quality of windrows. Cam track technology brings unmatched pickup performance in short or sticky crops. The 2.3 m pickup features 5 tine bars and galvanised strippers.



RotoFlow and MaxiCut

Available in both pre-cutter and non pre-cutter versions, the high capacity rotor and large aligned converging augers speed the crop into the adjoining pre-compression chamber. This in-line design minimises any dead zone between components, smoothly transferring even the stickiest of crops. Pre-cutter knives can be engaged from the cab, so that cutting quality is assured.



Pre-compression chamber

Perfectly shaped, dense bales need consistently sized pre-compressed crop flakes. Our multi-crop packer system ensures the chamber is completely full before each bale is formed. The feeder fork operates in two modes: "intermittent" for irregular sized windrows, or "one on one" for large windrows of constant size. Integrated volume sensors enable two filling modes: permanent filling or sensor plate controlled.



Packer floor

A wide-opening bottom door facilitates clearing an overloaded pre-compression chamber and provides access for maintenance.

MAKING MORE OF YOUR BUSINESS

Apart from making higher density bales, finely chopped straw, with a theoretical cut length of 19.5 mm, has a higher capacity for absorption than non-chopped straw. This makes it ideal for use in bedding dairy cows, pork and poultry, mushroom cultivation, strawberry plantations and as a fibre supplement with cattle feed.









Strawberry plantation

Animal bedding

Cattle feeding

Mushroom cultivation

SPECIFICATIONS	
PRECHOPPER	
Working width	200 cm (78.7 in)
Theoretical cutting length	1.9 cm (0.74 in)
Maximum ground clearance	65 cm (25.6 in)
Installation	Specific drawbar
ROTOR	
Rotor diameter	67 cm (26.4 in)
Rotor speed	2400 rpm
KNIVES	
Number of knives	48
Number of counter knives	2 sets of 49
Weight of each knife	0.85 kg (1.87 lb)
Speed of each knife	84 m/s (276 fps)
DRIVELINE	
Primary drive line	1-3/4 PTO driveline, 20 splines, heavy duty, S9
Gearbox	T design with direct on/off control
Rotor drive	Five ribbed V belts
Belt tension system	Automatic
DIMENSIONS	
Overall width	238 cm (93 in)
Weight	930 kg (2050 lb)
Additional horsepower*	37 kW (50 hp)



Pre-chopper

The pre-chopper enables you to extend your scope of business to include customers requiring chopped straw (e.g. strawberry plantation, mushroom cultivation, animal bedding). It can bale a large variety of different crops and has the capacity to produce more bales per season. It has the one of largest rotors on the market and, when not required, can be raised to provide 650 mm clearance above ground level. It is available factory mounted.

 $^{^\}star Horse power requirement may vary with different crops, conditions, and option used$

CONCENTRATED CAPABILITY

When the bale chamber is filled to capacity, the collected crop material flakes are firmly compressed into perfectly formed, rock-hard square bales.

Together, the heavy duty components of the L1500 Series baler chamber comprise the powerful heart of the machine. The high capacity plunger works at a rate of 46 strokes per minute and is guided by some of the industry's largest plunger bearings. The automatic greasing system prolongs their working life without the need for manual servicing.





Pressure frame with cylinders

Pressure cylinders provide compression on the third side of the chamber, for bales of an even density and size. The two selectable operating modes have been optimised to manage either consistent or varying crop moisture conditions.





Heavy duty bearings

The reliability, efficiency and long-term durability of the bale chamber and plunger is ensured by four strong 125 mm bearings that are permanently lubricated.

DOUBLE-TIE KNOTTING

The knotters are directly driven by gearboxes and shaft. It's a kinematic that ensures perfect and constant timing — twine is inserted at precisely the right time.

The knotter frame is isolated from tension so that even in heavy crop conditions, bales are always correctly and precisely tied. The system ensures that needles and twine box remain under acceptable load at all times, while delivering perfectly tied bales with reliably tight knots. And because the tension is controlled, there's less wear on the needles and twine holder.





Your advantage

Less component wear, precise tying and exceptional reliability – these are the outstanding benefits of the John Deere double-tie knotting system.



How it works

Knotters and twine are isolated from tension during baling, so the quality of the knots is ensured and is more reliable. This protects the knotting process from any operational stress when working under high performance conditions. Major knotter functions can be supervised via the in-cab display.



Knotter drive

Gear boxes and shaft ensure a permanent synchronized drive.



Easy knotter access

Any required maintenance to the knotter mechanism is easily achieved through the access door.



DUAL BLOWER SYSTEM

The high productivity of the L1500 is maintained by the extremely efficient cleaning effect of the built-in blower system as used in our T-Series and W-Series combines.

Air is forced through the knotter system at a speed of 200 km/h, thus keeping the system clean throughout even the longest of baling days.





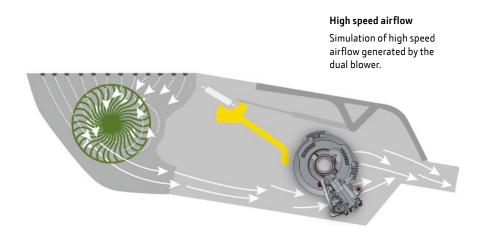
High speed dual blower: the John Deere difference

Keeping the knotter area clean and clear maintains the high performance of L1500 Series balers. Our dual blowers provide the most efficient solution.



Made for your baler

John Deere crop care packaging solutions include a range of twines that are made from high grade raw materials for trouble-free baling in a variety of conditions.





Profits you can weigh

End customer satisfaction is a key business principle and our bale weighing system provides the instant data that ensures that you're meeting or exceeding customer expectations.

The on-board weighing system provides real-time bale weight data to the display. It shows last bale weight, average bale weight and the current weight on the platform. It also records the number and accumulated weight of bales produced in each session with an accuracy level of. \pm 2%. Bale weight data – current, previous and average of last three – is instantly available. Total crop weight baled and total average bale weight are immediately available after each baling session. This enables billing options, charging per bale or by baled crop weight. It's another way to control your operation costs.



FINGERTIP CONTROL

COMPREHENSIVE OVERVIEW



OPTIMISING PRODUCTIVITY WITH INTEGRATED SOLUTIONS

Modern farming and contracting isn't just a matter of handling daily tasks — you are managing a complex enterprise. That's why maximising performance and productivity depends on being well connected. MyJohnDeere.com makes things simple. It enables you to stay connected with your tractor via smartphone, tablet or office PC.

Remote Display Access with JDLink

The JDLink Connect telematics system combines machine location and performance data with John Deere Remote Display Access. It enables machine optimisation, remote operator support and seamless transfer of agronomic data. Invaluable for remotely based managers, fleet controllers and dealers.





Function monitoring

All ISOBUS controlled functions can be easily monitored via John Deere displays, so you will always be informed about the efficiency and productivity of important implements.



Machine set-up

Setting up your L1500, including the automatic knife cleaning function on MaxiCut machines, can be executed from the comfort of your cab via John Deere displays.



Daily work record

All field work can be documented in detail, which simplifies subsequent customer billing.



Electronic twine tracking system

Each knotter is individually monitored via the bar graph on the screen, with visual and audible warnings of any irregularities.

HANDS-ON SIMPLICITY

If the word "maintenance" is a bit of a turn-off, then our L1500 baler is going to be an eye-opener. This is a machine that, from the very start, has been conceived to be the large square baler that's the easiest of all to operate and maintain.

All working components and service points are easily accessible, especially those requiring greasing. Twine spool loading is straightforward. Twine boxes, needles and knotters are simple to reach, as are the rear bale chamber, pick-up and pre-cutter cassette (if fitted).



OPEN FOR BUSINESS

John Deere 1500 Large Square Balers have been engineered to provide the easiest possible access to all working components, from the MaxiCut cassette and pickup to twine spool loading and the rear bale chamber. In addition, the two large side walkways allow easy and safe access to the knotter and blowers.



MaxiCut HC 23 access

The slide-out knife cassette simplifies maintenance. Hydraulic protection for each knife extends component life.



Rotor and MaxiCut HC 15 access

Inspection and maintenance of the components are facilitated by the knife cassette and wideopening door beneath the rotor.





Maintenance lights

You never know when you might need to change a twine spool in low light conditions, so we've equipped our L1500 balers with a set of maintenance lights that illuminate all important service access points (twine boxes, needles, knotters).



Remote set-up and monitoring of greasing

There is no need to spend time manually greasing the chains and bearings. Because greasing is set up and monitored from the cab, all the important components receive the correct amount of grease at the right time, reducing the time needed for daily maintenance.



Ease of operation

We've made working with the L1500 as userfriendly as possible, with easy access to all active components, from twine spools to needles and knotters. There's ample dedicated storage space for 30 twine spools and all day-to-day adjustments can be carried out without complication.

MATCH YOUR L1500 TO YOUR OPERATIONS

Although our L1500 balers are already well equipped, we realise that you may want to upgrade your baler to meet your own specific requirements.

All of our accessories have been designed and manufactured to meet our own stringent original equipment standards. Choose from a large attachment portfolio. You can be sure all attachments will fit properly and are built to last.

Add more **Do More**with John Deere attachments

WEIGHING DEVICE

Billing options can be extended by retrofitting your existing L1500 with our bale weighing system. Available from model year 2017.





80 mm ball hitch

Several types of hitch are available. Among them is the optional K80 ball type coupling. It ensures a tight, positive connection between your L1500 and tractor.



Rear convenience pack

Easy to fit pack includes rear work light, additional tool box, knotter service kit and waste bin.



Video camera

The rear-mounted camera gives you an in-cab overview of bale ejection. The image appears on your GreenStar 3 2630 display.



Crop moisture sensor

Monitoring crop material moisture content helps ensure the bale quality you need.

Technical Specification

	L1524	L1533	L1534	
BALE DIMENSIONS				
Cross section – Height x width (cm/inches)	70x120 / 28x47	90x80/35x32	90x120 / 35x47	
Maximum bale length (cm/inches)		up to 300 / 118		
PICKUP		·		
ntake width (cm/inches)		230 / 91		
Pickup diameter (cm/inches)		34/13		
Number of tine bars		5		
ine spacing (mm/inches)		61 / 2.4		
Pre-compression device	Adius	table roller baffle and compression fingers	rake	
Pickup gauge wheels	, to just	Fixed or pivoting		
Pickup protection		Clutch protection		
PRECHOPPER		ciaten protection		
Гуре		see details page 9		
DRIVEN CROP ROLL (OPT)		see details page 3		
		Tanyawaina sida ayaasa and santual naddla		
ýpe S	,	Converging side augers and central paddles		
Orive		Mechanical – chain		
rotection		Clutch protection		
ROTOFLOW ROTOR		. B. El		
Гуре	High Capa	city RotoFlow with converging side augers	in the axis	
Protection		Clutch protection		
MAXICUT ROTOR				
Гуре	High Capa	acity MaxiCut with converging side augers	n the axis	
Protection		Clutch protection		
Number of knives	23	15	23	
Cutting length (mm/inches)	45 / 1¾	45 / 1¾	45 / 1¾	
inife selection	0 / 11 / 12 / 23 knives	0 / 15 knives	0 / 11 / 12 / 23 knives	
ínife protection	Individual hydraulic	Individual spring	Individual hydraulic	
Knife cleaning system	, and the second se	Automatic and adjustable from the monito	r	
PRE CHAMBER				
Packer		Feeder fork type		
Protection		Clutch protection		
eeding mode		Manual or automatic		
PLUNGER				
Number of plunger strokes (per min)		46		
Plunger stroke (cm/inches)		69.5 / 27		
BALE CHAMBER				
Bale Chamber hydraulic cylinders	4	3	4	
Bale chamber length (m/ft.)		3/10		
(NOTTING SYSTEM				
Number of knotters / type	6 / double tie knotters	4 / double tie knotters	6 / double tie knotters	
Cleaning system		blower turbine – independent hydraulic di		
(notter tracking system	544	Electronics – from the cab display		
Twine capacity (Balls)		30		
		30		
WEIGHING DEVICE (OPT)	Dalaiaha dasa ah		- Cald annual and	
Type	Bale weight data sh	own on the main screen and reported to th	e Heiu Counter page	
WHEELS AND AXLES		600 (55 22 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		
Single axle		600 / 55-22.5 or 710 / 40-R22.5	22.5	
Steerable tandem axle (opt)	550	/ 45-22,5 or 560 / 45-R22,5 or 620 / 50-R2	22,5	
GREASING SYSTEM				
уре	Automatic and ad	justable from the monitor — main bearings	and all the chains	
DIMENSIONS				
ength (m/ft)	8.2 / 27 ft	8.2 / 27 ft	8.2 / 27 ft	
Nidth (m/ft)**	3 / 9 ft	3 / 9 ft	3 / 9 ft	
Height (m/ft)**	3.4 / 11 ft	3.4 / 11 ft	3.4 / 11 ft	
Veight (kg/lbs)**	10,200-10,800* / 22,487-23,810*	9,300-9,600* / 20,502-21,164*	10,400-11,100* / 22,928-24,471*	
RACTOR REQUIREMENT				
PTO rpm		1,000		
Hydraulic connection**		1 double acting SCV + 2 single acting SCVs		
		5		

^{*} for MaxiCut machine **may vary with different options

NOTHING RUNS LIKE A DEERE

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John Deere Financial – A range of finance options as powerful as our products.
Contact your John Deere dealer for a comprehensive range of finance options to suit the specific needs of your business. Not available in all countries please consult your

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