

THE BALING MACHINE

PUTTING BUSINESS PRODUCTIVITY FIRST

This is what contractors have told us, season after season: give us a baler that exceeds the quality our customers demand, with the versatility that allows our business to thrive. We listened, here it is.

The L600 packs silage, hay, straw and speciality crops like hemp into high-density, rock-hard blocks of concentrated energy that will delight your customers. Moreover, its pre-chopper gives you an additional product to sell: finely chopped straw bales for specific agricultural use and industrial applications such as biogas production and incineration plants.

GREAT BALES FOR MORE CLIENTS

From very wet to really dry, John Deere Large Square Balers produce the same excellent results no matter what.



Silage



Cow feeding



Hay



Strawberry plantation



Straw



Animal bedding



Hemn



Animal bedding grating



Animal bedding



Mushroom cultivation



Biogas production



Incineration





"WHEN JOHN DEERE ASKED ME WHAT
I THOUGHT THE L600 DESIGNERS SHOULD
FOCUS ON, I SAID: THE HIGHEST LEVEL OF
PRE-CHOPPING QUALITY AND THE DENSEST
BALES YET. I'M NOW HAPPY TO REPORT:
MISSION ACCOMPLISHED."

MICHAEL PEYRARD, DROME (FRANCE)

CONTENTS

Introduction	2
L600 Overview	4
The baling cycle and driveline	6
Feeding system	8
Pre-Chopper	10
Bale chamber and plunger	12
Double-tie knotter	14
Dual blower system	15
Maintenance	16
Control and operation	18
On-board weighing system	19
Attachments	21
Specifications	22

THE DENSITY **BENCHMARK**

L600 OVERVIEW

It's not just one thing that makes the L600 such a highly regarded piece of baler technology and the standard for dense, perfectly shaped bales. 10 things superior to the L1500 Series in density and capacity, the L600 is packed with features for the exacting demands of modern contracting.



1 | HIGH-CAPACITY PICKUP AND ROTOR

The high capacity and heavy duty intake unit is equipped in base with a floating driven crop roll. That floating driven crop roll accelerates the crop flow coming from the pickup to the rotor area. All rotors are made with Hardox® steel tines. The new Maxi RotoFlow rotor uses the same bolted rotor tines as the MaxiCut™ – with a diameter of 600 mm.

6 | DRIVELINE AND CAM CLUTCH PROTECTION

Updated, with a heavier flywheel in a straightforward safety-focused design for effective overload control and reduced downtime.

2 | DUAL BLOWER SYSTEM

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

3 | DOUBLE-TIE KNOTTERS

The design enables higher density without additional wear on the knotters.

7 | EASY ACCESS AND MAINTENANCE

Knives cassette, wide-opening bottom door, centralised automatic greasing system.

8 | PACKER AND FEEDING SYSTEM

A multi-crop packer and simple feeding system for uniform, dense bales in all crops and conditions.



THE SINGLE-AXLE VERSION

It's the more affordable alternative and is more manoeuvrable in some conditions.





Bale weight is displayed on the monitor (optional)

4 | EASY ACCESS

The easy-access platform and doors that fully open, provide excellent access to all working components.

5 | MORE STORAGE

An extra 225 l of storage on the righthand side of the machine for at least 6 extra twine spools, a toolbox, or a knotter service kit.



Bale drop sensor (optional)

9 | INDIVIDUAL HYDRAULIC KNIFE PROTECTION

Features constant, regular load protection for each knife and knife cleaning functionality.

10 | ISOBUS CONTROL DISPLAY

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



Comes as standard: clean, smooth last bale ejection thanks to the dual hydraulic fork row

DEDICATED TO DENSITY

SEE A BETTER BALE

The ideal bale has a few essential characteristics: it's packed with latent energy, is easy to handle, transport, stack and store. For that, it must be dense. That's what the L600 is all about.



GREAT BALES IN PROGRESS: HOW THE L600 DOES IT



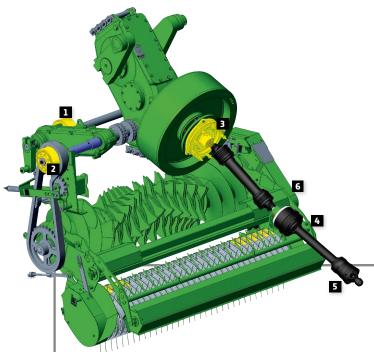
1 | For consistent-density crop flakes, the single-feeder fork transfers crop material from the inline rotor into a pre-compression chamber.



2 | When the chamber is full, pressure is exerted on the wedges until it triggers an extended stroke of the feeder fork.



Our L600 designers stuck with a tried and true engineering approach: employ simplicity to achieve efficiency. In conjunction with a now heavier flywheel, the gearbox and drive shaft design produces a consistently smooth and synchronised motion – with minimal frictional losses for better overall system efficiency that also extends component life by minimising wear.



Less unscheduled maintenance interruptions are a key to boosting uptime: We protected all driveline components from overload with a series of cam clutches that immediately disengage when a load threshold is reached.

- 1 | Feeder fork cam clutch protection
- 2 | Rotor cam clutch protection
- 3 | Main cam clutch protection
- 4 | Pick-up cam clutch protection
- 5 | Wide angle PTO shaft
- 6 | Power Feed Roll cam clutch protection



3 | The pre-compressed flakes are fed into the bale chamber and then compressed by the plunger to form a bale of powerful density.

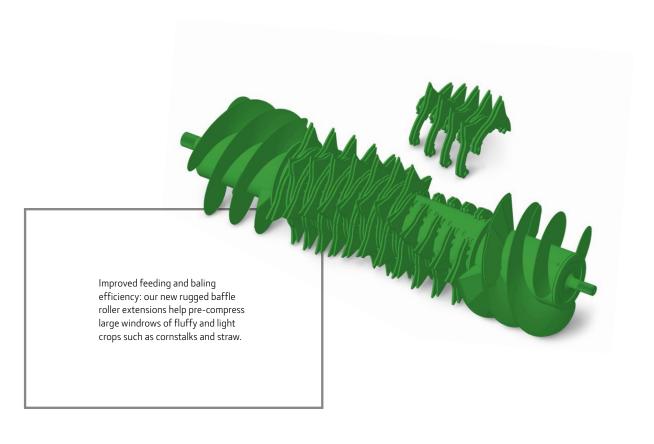
VERY HUNGRY, NOT PICKY

ALL-CROP FEEDING SYSTEM

The thorough high-capacity feeding system of the L600 gobbles up large windrows at impressive speeds and picks up any crop you put in front of it, from hay and straw to speciality crops like hemp.

The L600 feeder system is a top-end performer. Cam track technology and wide pick-ups matched to high capacity rotors aligned with massive converging augers will transform windrows of any shape and size into the uniform crop stream that is the foundation for uniformly sculpted high-density bales.







There's no shield to obstruct your view as our RotoFlow or MaxiCut™ pick-ups efficiently speed the crop into the precompression chamber with high-capacity rotors and large aligned augers − even the stickiest of crops flow smooth.



Clear overloaded pre-compression chambers faster and effortlessly thanks to easy maintenance access through the wide-opening bottom door of the packer floor.



Only perfect crop flakes make perfect bales.
That's why the feeder fork operates in two modes:
"intermittent" for irregular windrows, or "one-on-one"
for large windrows of consistent size. The toughened-up,
low-maintenance multicrop packer system of the L600
forms each bale only when the chamber is completely full.



MORE CUSTOMERS, MORE BUSINESS

THE PRE-CHOPPING OPPORTUNITY

With our pre-chopper, you can serve more customers than ever: strawberry plantations, mushroom cultivators and livestock operations that require animal bedding all need the finely chopped straw you can now deliver.

OUR PRE-CHOPPER:
MAXIMISE THE
RETURN ON YOUR
BALER INVESTMENT



Though our pre-chopper has one of the largest rotors on the market, you can lift it out of the way to get 650 mm of ground level clearance when you're not using it.

PRODUCT SPECIFICATIONS	
PRE-CHOPPER	
Working width (cm/inches)	200/78.7
Theoretical cutting length (cm/inches)	1.9/0.74
Maximum ground clearance (cm/inches)	65/25.6
Installation	Specific extended drawbar
ROTOR	
Rotor diameter (cm/inches)	67/26.4
Rotor speed (tr/min)	2,400
KNIVES AND COUNTERKNIVES	
Number of knives	48
Number of counterknives	2 x 49
Crossbar	1 – stainless steel
Weight of each knife (gr/lb)	850/30
Speed of each knife (m/s)	84
DRIVELINE	
Primary driveline	1-3/4 PTO driveline – 20 splines – heady-duty
Gear case	T design with direct on/off control
Rotor drive	Five-groove belt
Belt tension system	Hydraulic pressure adjusted (gauge)
DIMENSIONS	
Overall width (cm/inches)	238/93
Weight (kg/lb)	930/2,050
Additional horsepower required (kW/hp)*	37/50

 $^{{}^{\}star}\operatorname{Horsepower}\operatorname{requirements}\operatorname{may}\operatorname{vary}\operatorname{depending}\operatorname{on}\operatorname{crops},\operatorname{conditions},\operatorname{and}\operatorname{options}\operatorname{used}.$

WANTED: FINELY CHOPPED STRAW

Chop straw down to a cut length of 19 mm to produce highly absorbent fine-cut straw which is ideal for dairy cow or pork and poultry bedding, as a high-fibre cow feed supplement, and for mushroom cultivation and strawberry plantations.



Animal bedding



Mushroom cultivation



Cow feeding



Strawberry plantation

POWERFUL FORCES

PRECISION-ENGINEERED BALE FORMING

When the bale chamber has been filled, the precision-controlled forces of several components compress the crop flakes into sculpted rock-hard square bales of concentrated energy.



MORE ROOM FOR QUALITY

A long bale chamber is a key element in producing higher bale quality and density. At 3.3 m, ours comes in at the top-end.





ENGINEERED TO LAST

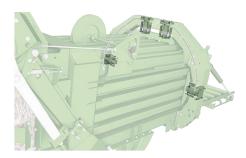
Four extra-durable, permanently lubricated plunger rollers ($60 \times 125 \text{ mm}$) ensure that the bale chamber and plunger work efficiently and reliably season after season.





HYDRAULIC EFFICIENCY

Operators rave about the practical convenience of the brand-new cab-operated hydraulic load sensing control system and its bale ejector control panel, discharge ramp and knife cassette access.



THE KEY TO UNIFORMITY

Thanks to the selectable operation modes of the L600 series density frame and panels you'll get perfectly shaped uniform bales no matter what crop conditions you're working in.

DOUBLE-TIE KNOTTING

MAKING PERFECT LAST

Our double-tie knotting system ensures that the perfectly sculpted bales from the L600 stay that way, regardless of crop conditions.

So, what's special about how we do that? The trick is to keep the knotter frame isolated from tension. That maintains the right load on needles and twine in all crop conditions. That means less component wear and reliably tension-free knots that you can count on, no matter what crop you're in, or what the conditions are.





Reliable knot quality every time – you can conveniently monitor the main knotter functions on your in-can display.



Perfect timing all the time – the updated driveline features knotters are directly driven by gearboxes and shafts.



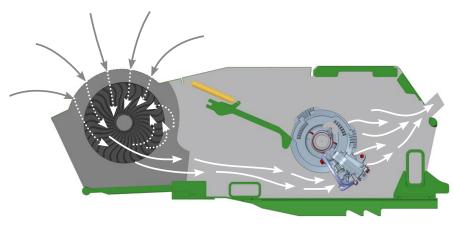
Practical convenience – comfortably straightforward maintenance access to the knotter mechanism.



DUAL BLOWER SYSTEM

POWER CLEANING FOR PERFORMANCE

The built-in blowers keep the knotting system clean with a high velocity 200 km/h airstream.



Path of the high-speed airflow generated by the dual blower system.

CLEAN WORKS BETTER

Efficient dual blowers keep your L600 baling machine going strong without interruption on even the longest baling days.









MAXICUT™ HC 23

Easy maintenance with a slide-out knife cassette and an electrical side control panel. Extended component life thanks to high-spec Hardox® materials and hydraulic protection for each knife.



ROTOR AND MAXICUT™ HC 15

High-spec Hardox® materials, slide-out knife cassette, and wide door opening beneath the rotor for convenient access.



ACCESS IS EVERYTHING

RECORD-TIME MAINTENANCE

We specifically designed the L600 for low-cost operation. First, we gave it supremely straightforward kinematics. That alone is a major factor for making any system less susceptible to requiring repair.

Next, since proper regular maintenance is essential but should also be quick, we made sure it's a breeze to access key components: Twine spool, twine boxes, needles and knotters, rear bale chamber, pick-up and pre-cutter cassettes are super easy to reach, and we even included a service map sticker that shows you all the manual grease points. For convenient, safe access to the knotter and blowers, you've got two large side walkways.



ANYTIME MAINTENANCE

Daylight not required. We equip our L600 balers with a set of maintenance lights that illuminate all important service access points (twine boxes, needles, knotters).



GREASE IT FROM THE CAB

Set up and monitor bearing and chain greasing from the convenience of your cab – it's more accurate and saves you lots of daily maintenance time.



EVERYTHING ABOARD

There's plenty of space for everything you need to stay productive. Take up to 30 large twine spools with you – they'll keep you baling for a while.

EFFICIENCY UPGRADE

INFORMATION AND CONTROL

You need the right information at the right time, presented in a format that makes it instantly actionable. Here you go:

You'll love the sheer amount of information available and the many baler functions that you can control right from the cab. The ISOBUS-enabled Universal display or CommandCenter™ let you control bale density settings, MaxiCut™ knife activation, bale length, flake count and show your machine's load and pressure system information. Recording and documenting field and work information has never been this easy, which also makes billing your customer simpler and faster.





EXTENDED MONITOR

Double your screen size with our new extended monitor. See, track and adjust more, faster and better.



PROFIT YOU CAN WEIGH

ON-BOARD WEIGHING SYSTEM

You can get a range of real-time bale weight stats from the on-board weighing system. In addition to tracking your progress, the data also opens up more billing options for you, such as charging per bale or by crop weight. Instantly available data includes current and last bale weight, accumulated number of bales and bale weight per session, and average bale weight.





DIRECTIONAL ARROWS

Displayed on the home screen, the driving direction is indicated by arrows to make monitoring the machine easier, especially for less experienced drivers.



MACHINE SET-UP

You're in control – complete the set-up of your L600 from the comfort of your cab, including automatic knife cleaning on MaxiCut™ machines.



ELECTRONIC TWINE TRACKING

Each knotter is individually monitored via the bar graph on the screen, with visual and audio alerts for any anomalies.



Keep your L600 baler running at peak performance with genuine John Deere attachments. Ask your dealer for advice.

SMOOTH-RIDE BALER

In large square balers, periodic fluctuations in power and torque can cause significant tractor pitch vibrations, which puts considerable strain on the operator. Large square baler Ride Control is a software that actively modulates the tractor's AutoPowr™ transmission to compensate for the rocking motion caused by the large square baler's plunger. Not only does the system know how to modulate the AutoPowr™ transmission, it continues to learn during operation to achieve the greatest level of ride quality. Large Square Baler Ride Control provides approximately 14 percent reduction in operator station pitch (value varies depending on terrain, results based on internal testing).







The K80 is an 80 mm ball type coupling system for a steadfastly reliable connection between your L600 and your tractor. Several other types of hitches are also available.



MAKE IT EVEN BETTER

ENHANCEMENTS AND ATTACHMENTS



There are a multitude of optional accessories available that allow you to customise your L600 and set it up for your unique requirements – all in original John Deere quality.



Hand wash tank – enough water to keep your hands clean on long days on the field. The hand wash tank holds 10 l water.



Waste bin – in the field and not sure where to put the packaging of your twine spools and other waste? Right here!



Knotter service kit – everything for your in-field knotter maintenance in one deadicated kit.



Configurable crop moisture sensor – continuously monitor bale moisture to maintain top bale quality over your entire output.



Rear-mounted bale ejection camera – it's got integrated protection and can be mounted in two positions to show you what's happening on your extended monitor.



Rear convenience pack – two rear work lights, an additional tool box, knotter service kit, waste bin and hand wash water tanks.

SPECIFICATIONS

	L624	L633	L634
BALE DIMENSIONS			
Cross section – Height x width (cm/inches)	70x120 / 28x47	90x80/35x32	90x120 / 35x47
Bale length (cm/inches)		From 60 / 24 up to 300 / 118	
PICKUPUNIT			
Overall picking width (cm/inches)		230 / 91	
Pickup width (cm/inches) (DIN width)		225 / 88	
Pickup diameter (cm/inches)	34/13		
Number of tine bars		5	
Tine spacing (mm/inches)	61/2.4		
Pre-compression roller baffle	Roller baffle (250 cm / 9.84 inches diameter) and compression fingers rake		
Pickup fixed gauge wheels	Pneumatic wheels		
Pickup caster gauge wheels – pivoting	Semi-pneumatic wheels – puncture free		
Pickup floating		Spring	
Pickup protection		Clutch protection	
FLOATING FEED ROLL (DRIVEN)			
Туре	Floating	Feed Roll with paddles to accelerate the	crop flow
Drive	_	Mechanical – chain	
Protection		Clutch protection	
PRE-CHOPPER			
Туре		See details page 11	
ROTOFLOW STANDARD		1 3	
Туре	High-Capacity RotoFlow Hardox® tines with converging side augers in the axis		
Rotor diameter (mm/inches)	3 , ,	473 / 18	, and the second se
Protection	Clutch protection		
ROTOFLOW HEAVY-DUTY		·	
Туре	High-Capacity RotoFlow Hardox® with converging side augers in the axis, replaceable rotor tine	21/4	High-Capacity RotoFlow Hardox® with converging side augers in the axis, replaceable rotor tine
Rotor diameter (mm/inches)	590 / 23	N/A	590 / 23
Protection	Clutch protection		Clutch protection
MAXICUT™ ROTOR			
Туре	High-Capacity RotoFlow Hardox® with converging side augers in the axis, replaceable rotor tine	High-Capacity RotoFlow Hardox® with converging side augers in the axis	High-Capacity RotoFlow Hardox® with converging side augers in the axis, replaceable rotor tine
Rotor diameter (mm/inches)	590 / 23	473 / 18	590 / 23
Protection		Clutch protection	
Number of knives	23	15	23
Cutting length (mm/inches)	45 / 1¾	45 / 1¾	45 / 1¾
Knife selection on the display	0 / 11 / 12 / 23 knives	0 / 15 knives	0 / 11 / 12 / 23 knives
Knife protection	Individual, hydraulic	Individual, spring	Individual, hydraulic
Knife and knife slot cleaning system		Automatic and adjustable on the monitor	r
PRE-COMPRESSION CHAMBER			
Packer		Feeder fork type	
Protection		Clutch protection	
Feeding mode		Manual or automatic	
PLUNGER			
Number of plunger strokes (per min)		46	
Plunger stroke (cm/inches)	69.5 / 27		
Plunger roller size (mm/inches)		125 / 5	
BALE CHAMBER			
Bale chamber – number of hydraulic cylinders	4	3	4
Bale chamber length (m/ft)		3.3 / 10	
KNOTTING SYSTEM			
Number of knotters / type	6 / double-tie knotters	4 / double-tie knotters	6 / double-tie knotters
Cleaning system	Dual blower turbine – with independent hydraulic drive		
Knotter tracking system	Electronics – from the cab display		
Twine spool capacity		30 (compatible with large spool size)	

	L624	L633	L634
WEIGHING DEVICE (OPT)			
Туре	Bale weight data shown on the main screen and reported to the field counter pages		
WHEELS AND AXLES			
Single axle	600 / 55-22.5 or 700 / 55-22.5		
Steerable autolock tandem axle – (opt)	500 / 60-22.5 or 560 / 45-R22.5 or 620 / 50-R22.5		
GREASING SYSTEM			
Туре	Automatic and adjustable on the monitor – for main bearings and all chains		
MISCELLANEOUS			
Large square baler connection	ISOBUS		
Large square baler control	Display with all the main controls and indications including the driving directions arrows		
Extra storage box	Storage box 225 liters for extra twine spool or service tool box		
Humidity sensor (opt)	From 9% to 40% – can be calibrated		
DIMENSIONS			
Length (m/ft)**	8.2 / 27	8.2 / 27	8.2 / 27
Width (m/ft)**	3/9	3/9	3/9
Height (m/ft)**	3.4 / 11	3.4/11	3.4/11
Weight (kg/lb)**	10,400-11,000*/22,928-24,250*	9,300-9,600*/20,502-21,164*	10,600-11,300*/23,369-24,912*
TRACTOR REQUIREMENTS			
PTO rpm	1,000		
Hydraulic connection**	1 single-acting SCV + Power Beyond + Load sensing hydraulic		

^{*} For RotoFlow HD and MaxiCut™ machine ** May vary depending on options

PRODUCT SPECIFICATIONS		
PRE-CHOPPER		
Working width (cm/inches)	200 / 78.7	
Theoretical cutting length (cm/inches)	1.9 / 0.74	
Maximum ground clearance (cm/inches)	65 / 25.6	
Installation	Specific extended drawbar	
ROTOR		
Rotor diameter (cm/inches)	67 / 26.4	
Rotor speed (tr/min)	2,400	
KNIVES AND COUNTERKNIVES		
Number of knives	48	
Number of counterknives	2 x 49	
Crossbar	1 – stainless steel	
Weight of each knife (gr/lb)	850 / 30	
Speed of each knife (m/s)	84	
DRIVELINE		
Primary driveline	1-3 / 4 PTO driveline – 20 splines – heady-duty	
Gear case	T design with direct on/off control	
Rotor drive	Five-groove belt	
Belt tension system	Hydraulic pressure adjusted (gauge)	
DIMENSIONS		
Overall width (cm/inches)	238 / 93	
Weight (kg/lb)	930 / 2,050	
Additional horsepower required (kW/hp)*	37 / 50	

 $^{^{\}star}$ Horsepower requirements may vary depending on crops, conditions, and options used.



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. The green and yellow colour scheme, the leaping deer logo and the JOHN DEERE word mark are trademarks of Deere & Company.