8000

JOHN DEERE

NOTHING RUNS LIKE A DEERE

BUILT TO CHOP

We build the 8000 Series for what matters most: to enable you to produce more high-quality silage more efficiently. Experience reliably superior cutting performance at the lowest possible cost of operation and watch your bottom-line profits grow.

UPGRADE YOUR EXPECTATIONS: 8000 SERIES FORAGE HARVESTERS

When you aim high, you've got to have the right tools. With an 8000 Series forager, you've got it all covered – now with even more power on the 8100, 8200, and 8300 models, a styling update that aligns with the 9000 Series, updated feedroll design, and an upgraded John Deere Premium Kernel Processor. Experience top-notch cutting performance, advanced crop analysis and documentation capabilities and fantastic forage quality. It's all powered by our proven John Deere engines and backed by a team of knowledgeable dealer experts dedicated to keep you chopping non-stop. Go ahead, aim high.

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POWER UPGRADE

OVERVIEW

The 8000 Series was born to chop – and make operating and owning a forage harvester easier and more economical than ever. Now you get to enjoy that with the added power of our 8100, 8200 and 8300 models.

NEW!

1 | MORE POWER

Our 8100 model's 9 L engine now has more muscle, while the new 8200 model features a more powerful 13.5 l engine instead of its 9 l predecessor. The 8300 model also received a healthy horsepower upgrade to round out the portfolio.

2 | LOWER COST OF OPERATION

In addition to a lower daily maintenance effort facilitated by fewer access points that are easier to reach, you will be impressed by improved fuel and DEF efficiency.

3 | FUNCTIONAL CAB COMFORT

Built around you, with a panoramic view, lots of space, maximum comfort, and intuitive controls and displays.

4 | OPTIMAL CROP FLOW

Think maximum throughput performance thanks to ProStream crop flow and an updated cutterhead design.

5 | SUPERIOR SILAGE

Better silage quality with our upgraded John Deere Premium KP™ or XStream KP™ and integrated additive dosing.

6 | HARD-WEARING DURA LINE™ PARTS

More uptime, better cost control: crop flow liners and all-crop Dura Line™ Plus shearbars last 4x longer.

7 | POWERFUL GRIP

All power to the ground: our ProDrive™ transmission and 2.15 m tyres that go down to 1 bar for less compaction to protect soil health.

8 | NEW SPOUT DESIGN*

An optimised spout contour improves crop flow in sticky conditions. The covers protect harnesses and hydraulic lines for even more reliability.

9 | INTELLIGENT FORAGE MANAGEMENT

The HarvestLab™ 3000 measures and documents both dry matter and constituents in real-time for accurate silage quality analysis.

10 | HIGH EFFICIENCY HEADERS

Whatever you're chopping – wet, dry, standing, or down crops – our header range is ready for anything and will deliver excellent crop handling and efficient operation.

11 | ALWAYS AT ITS BEST

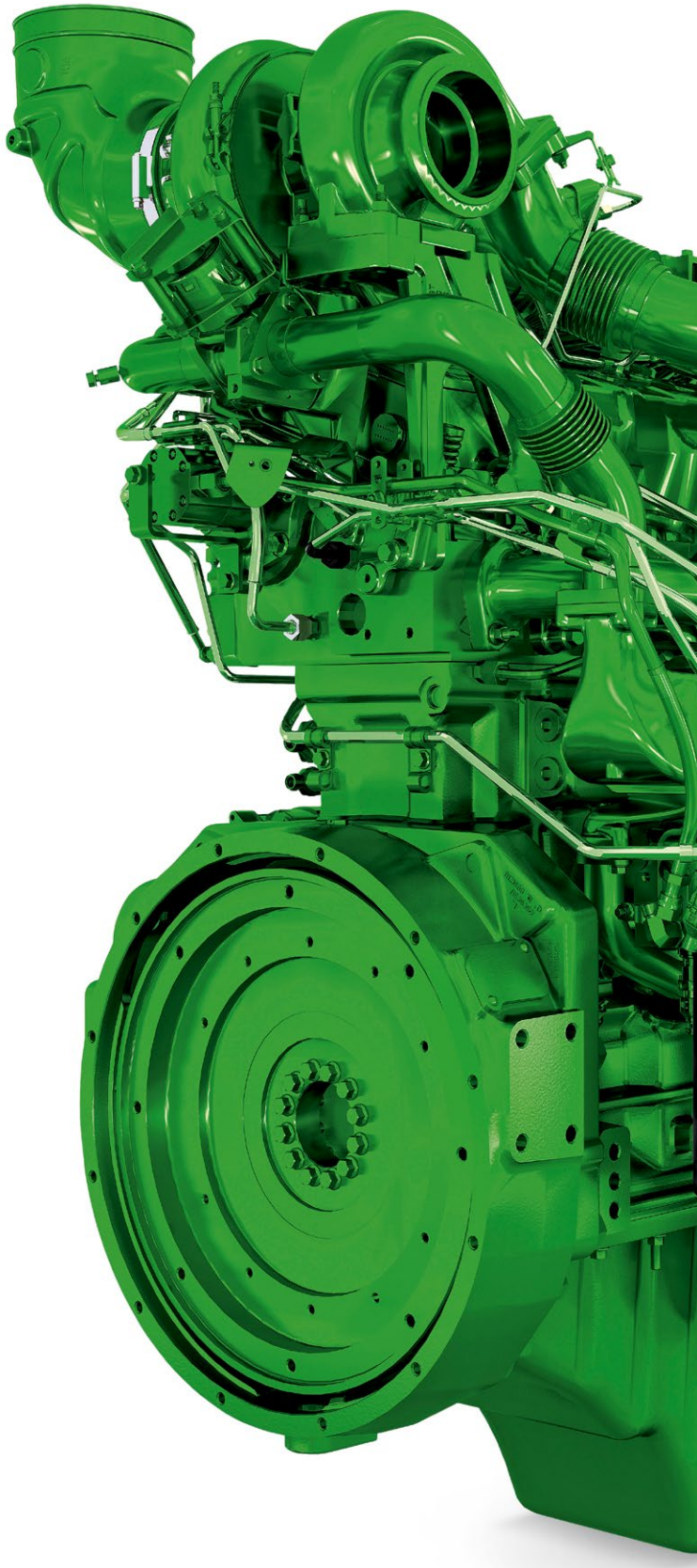
Our Lifecycle Solutions ensure that your machine always performs at the highest capacity and delivers maximum uptime with a measurable edge in cost of operation.

*Available from Summer 2023

BRAWN AND BRAIN

ENGINE & COOLING SYSTEM

Handling rapid changes in load with confident ease, the 8000 Series offers two engines that deliver stellar responsiveness, powerful torque, high performance and world-class efficiency.



The 8200, 8300, 8400, 8500 and 8600 models feature a John Deere PowerTech™ engine with 13.5 L displacement, which produces up to 625 hp, while the 8100 model is equipped with a 9 L engine. Mounted longitudinally, both engines combine perfect cooling efficiency with minimal fan power requirements and excellent serviceability and weight distribution. The bottom line: improved fuel efficiency and a massive amount of power and torque at your disposal.

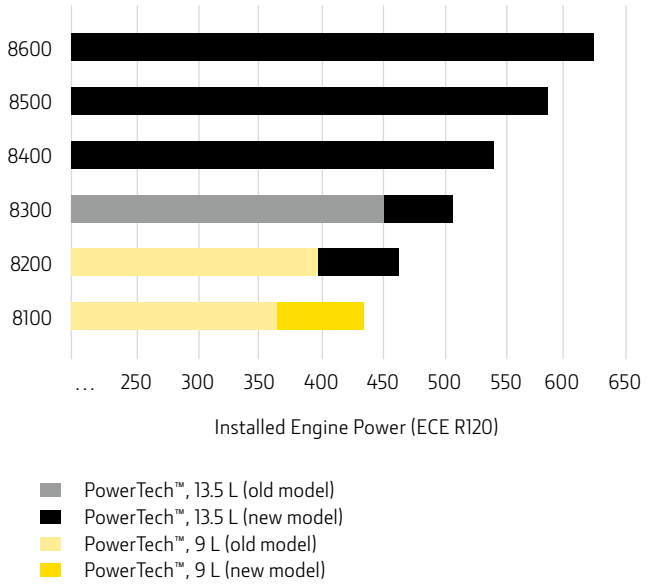
POWERFUL CORE

The turbocharged PowerTech™ engines produce outstanding power density, torque and transient response.

FUEL SAVER

ProDrive™ and engine speed management automatically match engine rpm to the harvester's power requirements – proven to reduce fuel consumption by almost 20%.

8000 SERIES UP TO 625 HP



EFFICIENCY BOOSTED

DRIVELINE

Every single component of the 8000 Series' driveline was designed to contribute to more efficiency. Crop flow components are powered by five main drive belts on the 9 L engine and six belts on the 13.5 L engine to ensure the prodigious engine power is reliably transferred, and the kernel processor drive has also received a significant upgrade. Overall fuel efficiency improves as well: while maximum engine speed reaches 2,100 rpm, the 8000 Series delivers maximum power at a fuel-saving 1,800 rpm in the 13.5 L engine.

1 | PERFECT CROP FLOW

The feedrolls and the header drive ensure uniform crop intake and an unprecedented throughput per horsepower thanks to a significantly optimised crop flow.

2 | ENGINE INTEGRATION

Thanks to the compact and low integration of the engines at the rear, less additional weights are needed to put power to the ground – that means better fuel efficiency on the road and less soil compaction in the field.

3 | OPTIMISED MAIN CLUTCH

The advanced main clutch design reduces power losses and maximises overall fuel economy.

4 | MAIN FRAME DESIGN

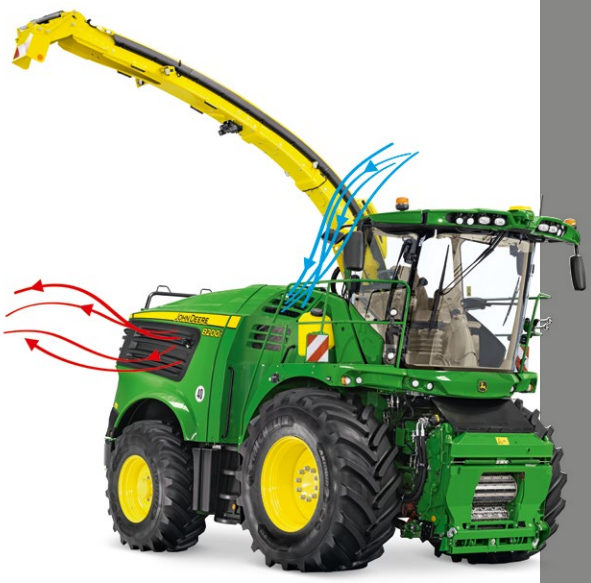
The main frame is designed to accommodate larger headers and features engine mountings for a lower centre of gravity and to provide more space for an overall stronger driveline.

5 | HYDRAULICS SYSTEM ENHANCED

At its core is a sophisticated load sensing system for maximum hydraulic performance with reduced losses and less pressure if needed. For optimised speeds, a hydraulic kernel processor belt tensioner is optionally available.

6 | MAIN DRIVE DESIGN

The renowned main drive and gear ratio of the 8000 Series are perfectly matched to the engine's power curve. The wear parts are even more accessible under the panels making maintenance a breeze.



COOLER BY DESIGN

The longitudinal layout of the 8000 Series' engines eliminates the need for the large and power-intensive cooling packages that transverse engines require: More of the engine's surface area is closer to the outer edges of the machine, unobstructed by other components. Cool air is drawn in through the channels behind the cab and is guided along the sides of the engine to the exits at the rear and the sides. That's more efficient cooling with less components.

High-efficiency crop stream – The straightforward design produces reliable and powerful material transport no matter what.

PROSTREAM: HIGH POWER, LOW FRICTION

CROP FLOW

The ProStream crop flow is designed with extra heavy-duty components for even higher engine horsepower outputs, and a throughput capacity of more than 400 tons per hour. The smooth, gentle arc of the channel minimises resistance for an even cropflow stream and lower wear.

1 | FAST HEADER ATTACHMENT

The self-adjusting header locking system connects the driveline automatically.

2 | WIDE PROFILE KNIFE MOUNTINGS

The knife mountings and the profile are designed to channel the crop for a more stable and even flow.

3 | PATENTED QUICK STOP SYSTEM

Within 85 ms, a patented hydraulic system instantaneously switches off the feedrolls without the stresses of traditional mechanical linkages.

4 | SMOOTH AND EVEN CROP FLOW

When you are chopping an uneven swath, our feedroll dampening system compensates and smoothes out the crop mat for even feeding and consistent length of cut.

5 | DURABLE HYDRAULIC KNIFE GRINDING SYSTEM

Our all-hydraulic system is highly vibration-resistant and adds reverse mode knife sharpening as an exclusive feature.

6 | FEEDROLL ADVANTAGE

Four feedrolls produce a smooth crop flow, and springs ensure a flat crop mat for perfect cutting quality. Optional: stronger, redesigned upper rear feedroll for tough grass.

7 | EXTRA FINE SHEARBAR ADJUSTMENT

The adjustment pivoting point is positioned far below the shearbar, ensuring minimum horizontal change when adjusting to worn knives.

8 | 5 MINUTE KERNEL PROCESSOR CHANGEOVER

Its swing-out/swing-in design allows it to be moved out of the crop flow and to be automatically replaced with a grass chute.

9 | HIGH QUALITY, HEAVY DUTY BEARINGS

The extra strong bearings are designed for loads and throughput much higher than they'll ever have to bear.

10 | NEW SPOUT DESIGN*

The optimised spout contour much improves crop flow in sticky conditions. A 20 cm longer standard configuration enhances visibility and makes trailer filling easier – ideal for pick-up use or 8-row maize heads.

*Available to order in summer 2023

ONE CUTTERHEAD, ALL CROPS

CUTTERHEAD

Our universal cutterhead is designed to perform with remarkable flexibility for potentially very different harvesting requirements.

It will meet your demands without having to compromise forage quality. Depending on your specific requirements, you can also choose from either 40, 48, 56 or even 64 knife configurations.

CUTTERHEAD						
KNIFE CONFIGURATION			**40**	**48**	**56**	**64**
Cutterhead Speed	1,100 rpm	Full set	7-26 mm	6-22 mm	5-19 mm	–
		½ set	14-52 mm	12-44 mm	10-38 mm	–
	1,200 rpm	Full set	–	–	4-17 mm	3-15 mm
		½ set	–	–	8-34 mm	6-30 mm

SMOOTH CROPFLOW

To further refine the crop flow, we analysed it with the latest high-speed video technology and gained unprecedented insight to engineer from. The large diameter 670 mm drum creates a faster cropflow which makes a big difference when the harvester is working at extra short cut lengths. The net result is higher throughput with lower power consumption.

HIGH EFFICIENCY CUTTING

The combination of the knife holder design and long knives, with a 20 mm tungsten carbide coating, means you can keep chopping without any loss in performance as the knives wear. What's more, with our innovative shearbar system, it's never been easier to cut high quality silage all season long.

LOWER FUEL CONSUMPTION

The unique design of the knife holders creates a more uniform and bundled crop stream. They also optimise the point of exit for the crop, helping to reduce the overall power demand of the crop flow by up to 20 kW. When you're chopping non stop, day after day, that adds up to significant fuel savings.

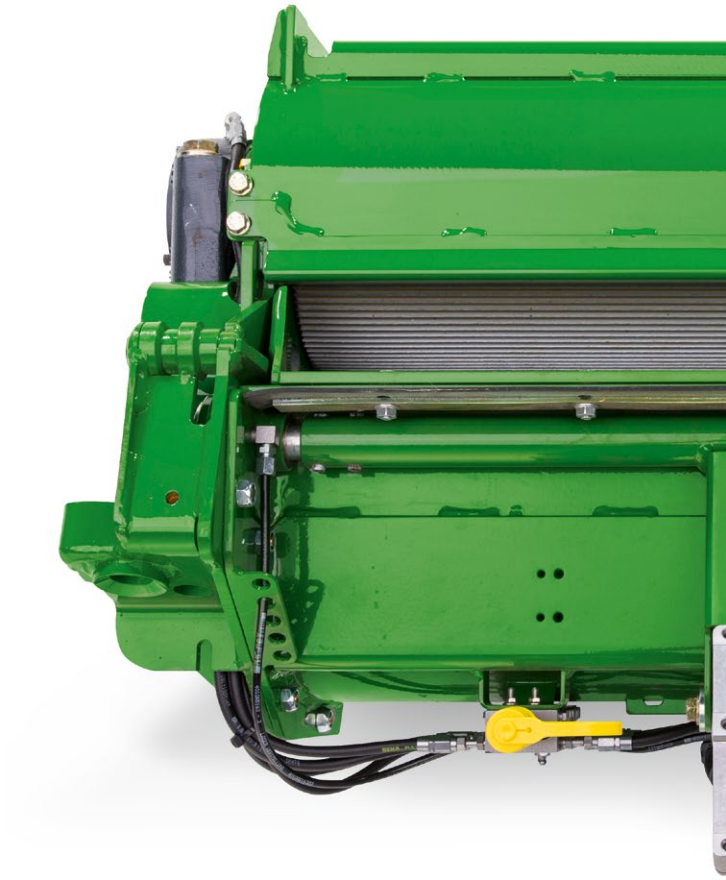
MAXIMISE BIOGAS AND LIVESTOCK POTENTIAL

Our cutterhead design gives you much more chopping flexibility: you can use the 40, 48, 56 and 64 knife cutterheads with 1/2 or 3/4 knife configurations for even longer lengths of cut. Totally unique to John Deere, it means you can meet all the needs of biogas, livestock and dairy farmers with a single cutterhead.

HIGH QUALITY SILAGE

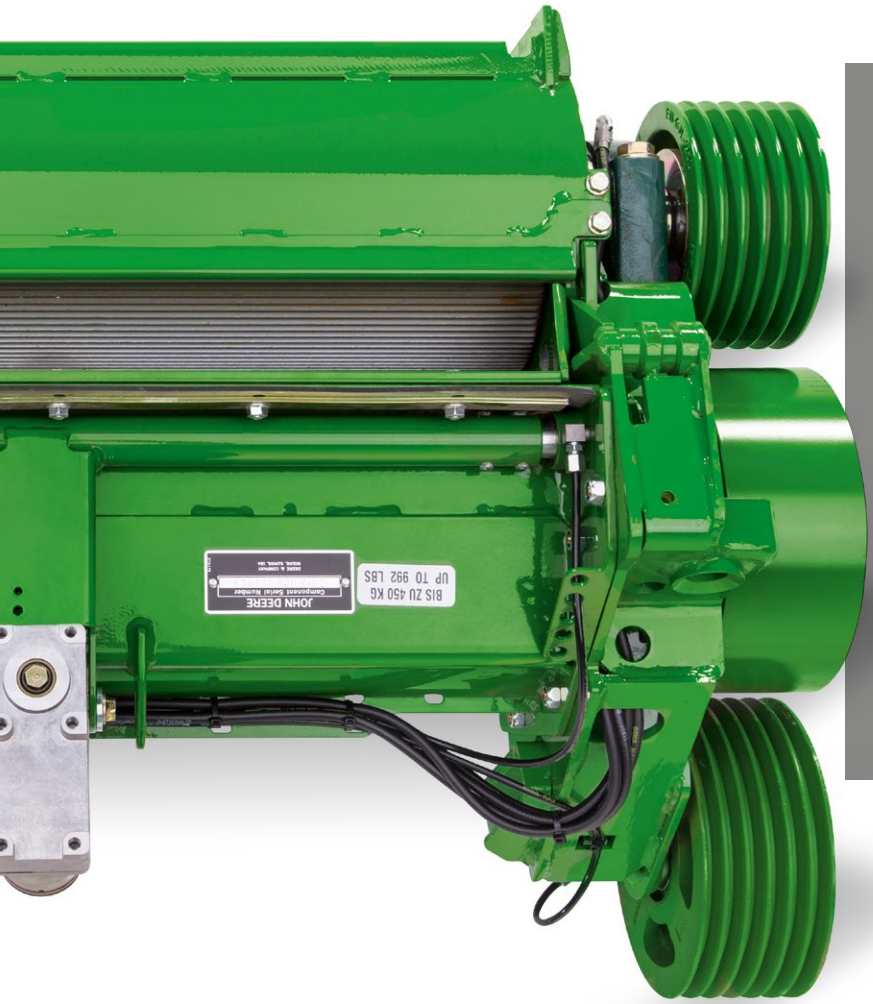
KERNEL PROCESSING

Achieve unmatched forage quality with your choice of exceptionally robust kernel processors: our upgraded Premium KP™ or the XStream KP™.



XSTREAM KP™

Together with the renowned experts from Scherer, a global leader in kernel processing roll design, we developed the new John Deere XStream KP™ for high horsepower. With 250 mm diameter rolls and 50% speed differential it delivers consistently smashed kernels and intensively processed plants regardless of chop length.



PREMIUM KP™

Our Premium KP™ features strong walls with BusaClad lining* instead of chrome, is available with a range of sawtooth numbers, and has been upgraded with new stronger rolls. Achieve excellent forage quality at any chop length and benefit from Dura Line™ rolls' longer life at higher volume.

	PREMIUM KP™	XSTREAM KP™
BASE FEATURES		
Housing	Standard KP housing	Heavy Duty housing with KP roll quick exchange system
Lubrication	Grease lubrication	Pressurized oil lubrication
Roll diameter	240 mm	250 mm
Speed differential	32%	50%
OPTIONS		
40% speed differential	■	■
Bearing temp. monitoring system	–	■
KP ROLLS		
Standard sawtooth	■	–
Dura Line™ sawtooth	■	■
High intense Dura Line™ sawtooth	■	–
Dura Line™ XCut	–	■
Whole crop	■	–
Dura Line™ whole crop XCut	–	■

■ Available – Not available

*Premium KP™ feature only, not on XStream KP™

ALL-STAR HEADER PERFORMANCE

HEADERS

Chopping performance starts at the header. That's why the 8000 Series gets only the best – designed for throughput, radical efficiency and total reliability. We've also introduced self-centring attaching points, a single-lever locking mechanism and a multi-coupler for all hydraulic and electrical connections, and finally, "header recognition" does away with re-calibration after header changes.

GRASS: NOTHING LEFT BEHIND

For thorough high-efficiency grass collection, the choice for the 8000 Series are our 6X9 standard and premium pickups. Wherever the job, whatever the conditions, their optional premium parts stay in the game longer in extreme field conditions – because they're Dura Line™. Not only is the pickup reel built more robustly, we also added heavy-duty chains. The sturdy auger with extra wear strips and deck plates with extra Dura Line™ coating on the corners will last at least four times longer.

1 | VARIABLE HEADER DRIVE

If you've been looking to improve feeding at all lengths of cut, you'll be pleased with the variable header drive of the 6X9. It synchronises auger speed to LOC for greater chopping quality, a constant crop flow and optimised throughput.

2 | SMOOTH FEEDING

The "endless" auger flight design moves the crop inwards to the centre of the machine to produce a smooth, continuous crop flow into the chopper, which allows you to make full use of the machine's prodigious capacity while saving fuel and reducing wear.

3 | DUAL HEADER DRIVE

For maximum performance in varying conditions and no crop left behind: introduced with the new 8000 Series in 2015 and available optionally, the proven dual header drive adjusts the speed of the pick-up tines independent of the auger to match the ground speed.

4 | AUTOMATIC CHAIN LUBRICATION

The two pickup chains can optionally be lubricated by an electrically driven oil pump that delivers oil to the felt pads that touch the chain only when the pickup is turning – you can keep your hands clean and do not have to worry about chain lubrication.

PICK-UP 6X9		
MODEL	TRANSPORT WIDTH	WORKING WIDTH (TINE TO TINE)
639	3 m	2.56 m
649	4 m	3.64 m
659	4.5 m	4.15 m

1 | HIGH-SPEED CUTTING

Fast turning rotors, for a perfect cut even under the most difficult conditions such as wet crops with lots of weeds.

2 | HEADER VERSATILITY

Chop maize and many other crops for feed or biogas production even under tough conditions and cut covering the full working width.

3 | UP WITH DOWN CROP

The integrated low outer pointers make sure that down crop gets picked up perfectly every time.

7 | LUBE FASTER

Our headers feature less lubrication points to make daily maintenance easier and quicker. You've got other things to do.

8 | INSPECT LESS

The main hexagonal shaft in our headers connects all gearboxes and minimizes daily inspection requirements.

9 | ROWSENSE™

Manual RowSense™ and AutoTrac™ RowSense™ allow you to keep your full attention on the header and spout functions to increase your productivity.

FLEXIBLE, LEGENDARY RELIABILITY

Built by Kemper, a John Deere company, our 300plus and 400plus maize headers are renowned worldwide for high capacity, reliability and low maintenance. With the wide variety of header sizes, you can choose what fits best for you.

TRANSPORT: CONVENIENT AND SAFE

We've made transport efficiency a priority to make sure that you don't lose any time when changing fields. For excellent on road driving comfort, we now offer a comfort support wheel for 300plus and 400plus headers. All safety equipment is conveniently integrated so that you leave nothing behind, and automatically folds in for transport so that you don't have to leave the cab to do it manually – when others are still folding, you're already chopping! With several field changes a day, you gain up to half an hour more time to chop.

4 | FLATTER HEADER ANGLE FOR EVEN STUBBLES

Specially shaped cleaners on the underside of the cutting rotors break up sharp edged maize stubble for faster decomposition.

5 | QUICK FIELD CHANGES

The comfort support wheel mounts in 30 seconds – from the cab. All security features are integrated, and lighting connects automatically.

6 | LESS WEAR

Power is transmitted by closed oil bath gearboxes and safety clutches for minimal wear at the driveline parts.

10 | ADVANCED CONTROL

The perfect header position every time, thanks to the active height control of Advanced Header Control (AHC), optionally available with a third sensor in the middle.

11 | ATTACH IT FASTER

The multi coupler and the optional integrated quick coupler make attachment and removal a fast and painless process.

COMPACT PERFORMER

300plus HEADERS

Short, compact and with a light-weight small-drum design, the 300plus series is easy on the soil and great for short to medium-height crops.

For the 8000 Series, the 300plus is available in working widths from 4.5 to 9 meters to get you the perfect fit for what you're harvesting most.The row-independent harvesting technology lets you work the field from any side. Thanks to the even length wise feeding, the 300plus series is your best choice for perfect chopping quality.

SUPERIOR COVERAGE

Row-independent harvesting technology with fast-running rotors for seamless cutting over the entire width.

SHORT AND COMPACT

The compact design gives you a better view for enhanced road transport safety.

IT'S LIGHTER

We've reduced the overall weight so there's less of it on the front axle. You'll leave the field in better shape with less soil compaction.

WIDE RANGE

The 300plus series features a wide range of working widths. Choose between 6, 7.5 and 9 meter working widths.

ROTARY HEADER 300plus		
MODEL	**WORKING WIDTH**	**TRANSPORT WIDTH**
345plus	4.5 m	3 m
360plus	6 m	3 m
375plus	7.5 m	3 m
390plus	9 m	3.3 m

MOUNTING COMPATIBILITY						
MODEL	**8100**	**8200**	**8300**	**8400**	**8500**	**8600**
345plus	■	□	□	□	□	–
360plus	■	■	■	■	■	■
375plus	–	□	□	□	■	■
390plus	–	–	–	□	□	□

■ Recommended □ Available – Not available

THROUGHPUT CHAMPION™

400plus HEADERS

When you need to harvest lots of high-yield crops fast, you can't do better than our 400plus series.

Designed and built for greatest throughput and field health, the 400plus series uses the big drum design to cut, gather and feed the crop into your SPFH. Developed with an emphasis on creating value, the 400plus series machines shine when you're looking for more yield, more productivity, higher performance and healthy fields. Our award-winning integrated StalkBuster™ stubble processing solution effectively controls corn borer and fusarium pests by destroying all stubbles down to the last internode, and will minimise corn borer survival during the winter months.

STALKBUSTER™

Our award-winning corn borer pest control solution for 460plus headers.

ROTARY HEADER 400plus		
MODEL	WORKING WIDTH	TRANSPORT WIDTH
445	4.5 m	2.47 m
460plus	6 m	3 m
460plus StalkBuster™	6 m	3.3 m
475plus	7.5 m	3.3* m

MOUNTING COMPATIBILITY						
MODEL	8100	8200	8300	8400	8500	8600
445	■	□	□	□	□	–
460plus	■	■	■	■	■	■
460plus StalkBuster™**	□	■	■	■	■	■
475plus**	–	□	□	□	■	■

■ Recommended □ Possible – Not available

*All dimensions are nominal dimensions. Actual dimensions may vary from case to case.
**Heavy-duty header lift is required.

1 | HIGH-YIELD EXPERT

The 400plus is especially designed for harvesting high-yield crops even under very difficult harvesting conditions.

2 | LESS BLOCKAGE

The design with less handover points lowers blockage risk and creates a more direct crop flow for higher throughput.

3 | PRIME QUALITY

The plants go fully lengthwise through the header to the feed rolls to achieve a perfect chopping result.

4 | STALKBUSTER™

The award-winning integrated stubble processing solution controls corn borer by destroying stubbles to minimise corn borer larvae survival in winter.

PROFI CUT	
MODEL	WORKING WIDTH
530	5.3 m
700	7.0 m

DESIGNED FOR PEAK PERFORMANCE

The Zürn ProfiCut 530 and 700 high-efficiency headers we employ were developed for cutting whole-crop silage clean and low with a tried and tested disc-cutterbar. To help you achieve maximum throughput with optimal forage quality, you're even able to adjust the auger speed to the length of cut.

WHOLE-CROP SILAGE PERFORMANCE

When you focus, you get superior results. Zürn is a John Deere partner that specialises in producing high-end attachments for harvesting machinery. Whole-crop silage harvesting does not get better than with the ProfiCut headers from Zürn.

1 | BIG VOLUME

Large floating auger for superior intake performance of very large yield quantities.

2 | PERFECT FIT

Ideal for the 8000 Series and quick header adaptation.

3 | LUBED FOR LIFE

The disc cutter bar is maintenance-free for continuous precision cutting quality and clean stubbles.

4 | LESS DOWNTIME

The quick-knife-replacement systems keeps such interruptions short.

5 | CROP VERSATILITY

Easily mounted side knives feature fast coupling and collision protection – switch to new crops fast and easy.

6 | IT'S SAFE

The powerful outer drives of the two separate cutter bars are synchronized for completely safe operation and superior longevity.

7 | HIGH CROPS

The hydraulically adjustable front deflector lets you adjust the header to very high crop from the driver's seat.

8 | AUTO CHAIN LUBE

No need to worry about chain lubrication – it happens automatically.

9 | LOADING CONVENIENCE

Loading and unloading is a breeze with the hydraulically lowered header transporter.

FULL TRACTION, FULL CONTROL

TYRES & PRODRIVE™

John Deere forage harvesters deliver enormous traction and superior control in all driving conditions – you profit from bigger tyres and ProDrive™ as standard features.

BIGGER TYRES, BETTER GRIP

With diameters of up to 2.15 m, the 8000 Series features extra big tyres. And at up to 0.5 m it also delivers extremely high ground clearance. Add to this tyre pressure of as low as 1 bar, a reduced overall weight and you have a simple and efficient formula that gives you more traction and less compaction, still allowing you to zip along at speeds of up to 40 km/h on the road.

PRODRIVE™ – A TRANSMISSION BENCHMARK

ProDrive™ is the other half of the traction equation, with numerous other benefits. The sophistication of this breakthrough transmission technology stays on the inside – to you it is supremely easy to operate. ProDrive™ provides automatic shifting across two pre-set speed ranges in which you select a speed that will be maintained continuously, even when you're harvesting downhill on slopes. It could not be simpler: There's no gear lever or gear selection, and no parking brake, just a master control lever you push to move. Braking is just as easy – just pull back the lever and two brake units, and the parking brake engages automatically. While ProDrive™ gives you all the traction you need, it is also gentle on soft soil. On a 4WD harvester, if a wheel loses traction, the hydraulic flow is automatically directed to the wheels that still have grip and you keep moving. On softer soil, a speed differential between the front and rear axles prevents the wheels from disturbing the soil when turning.

HIGHEST GROUND CLEARANCE AVAILABLE ON THE MARKET

MORE SMILES PER HECTARE

CAB

It's quiet in here. You can focus and relax. You have all your comforts and tech tools at hand to enjoy hectare after hectare of pure productivity. Sit back and smile, you're in a 8000.

1

SEE MORE CLEARLY

More glass, less obstructions, less reflections, rain or shine, day or night. It's all about a better view of everything.

2 | ON TOP OF THINGS

The higher driving position gives you more control, the centre-cab seat adjusts to you, its air suspension protects you.

3 | INSTRUCTOR SEAT

Take a passenger along, or just fold it away to turn it into a practical workspace.

4 | CONTROL YOUR CLIMATE

Precisely adjust your air conditioning from the CommandARM™.

5 | ERGONOMIC CONTROLS

Perfectly laid out controls with programmable buttons on the hydro handle.

6 | ONE GLANCE, TOTAL INFORMATION

All essential operational data is displayed with extra sharp text and graphics for quick and effortless reading.

7 | STORAGE APLENTY

Lots of space available to store anything you need to bring along, including a large 37 L refrigerated compartment.

8 | ONE-HANDED CONTROL

All key controls, one multi-function lever: speed, header fold and lift, spout turn and lift, feedroll and header engagement.

9 | CHARGE AND CONNECT

Lots of 12V sockets for charging mobile devices, plus Bluetooth to connect to the audio system (optionally available with DAB+) for calls or music.

10 MAINTENANCE EASE

Enjoy the convenience of lubricating the pick-up from the cab. Add optional AutoLub to never again forget a lube point.

Thanks to their unique hard-wearing high-tech coating, Dura Line™ parts help significantly reduce in-season downtime and last 4 times longer.

40 km/h speed limit depending on country.

SAVING FUEL ON THE ROAD

Getting a forage harvester from field to field on the road is not exactly its most productive time and costs you fuel and money. That's where John Deere engine speed management comes in: it can automatically reduce engine rpm during road transport down to 1,250 rpm while you maintain a productive ground speed – that's more fuel efficiency and more savings.

GOOD FOR BUSINESS

The more resources you have available to you, the more you can accomplish, the more you can evolve. That's why everything about the new 8000 Series was designed to help you cut down your cost of operation.

COMPONENTS THAT LAST

In the end, it's about money: When the wear parts of your machine last longer, the machine becomes more profitable. That's why we packed the 8000 Series chock full of ultra-hard wearing Dura Line™ components which last 4 times longer. Throughout the crop flow – shearbars, knife holders, the chute – Dura Line™ is everywhere to let you go season after season without exchanging wear components.

LONGER SERVICE INTERVALS

Oils and filters in the engine and the hydraulic system need to be changed regularly – that's time and money. But in our case, less of that: change engine oil and filters only every 500 hours and get up to 2,000 h for hydraulic oil and 1,000 for hydraulic filters.

POWERGARD™

STATUS: PROTECTED

When you protect your equipment with a PowerGard™ Protection plan*, your business has the steady machine uptime and nonstop peak performance it needs to thrive.

ALL-IN-ONE

Predictable lifetime costs

PRICE PROTECTION

Stay untouched from market volatility and price changes

MAXIMUM UPTIME

Regular scheduled servicing and maintenance combined with genuine parts ensuring that your machine runs reliably

SAVINGS ON FUEL AND FLUIDS

Regular maintenance optimizes fuel efficiency and minimizes running costs

HIGHER RESALE VALUE

Transparent Service History

*Participating dealers only, please ask for details.

EXCEPTIONAL LIFECYCLE EXPERIENCE

PARTS AND SERVICES

We combine product excellence with an exceptional lifecycle experience to guarantee unmatched performance, maximum uptime and the lowest cost of operation throughout the entire life of your forage harvester.

JOHN DEERE LIFECYCLE SOLUTIONS

PREVENT

Premium components and scheduled routine maintenance

- Dura Line™
- PowerGard™ Maintenance
- Expert Check
- FarmSight™ Services

CORRECT

Fixing an issue as quickly as possible

- Service Advisor™ Remote
- Remote Display Access
- Remote Software Update
- 24/7 parts delivery
- Harvest Promise: backup machine*

PREDICT

Identifying potential issues and replacing parts before they fail

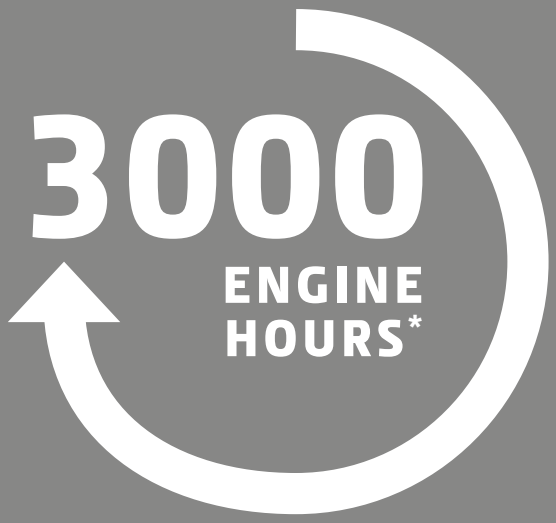
- Uptime Expert Alerts
- Remote Machine Monitoring
- Performance Expert Alerts

UPGRADE

Installing performance & comfort upgrades, always utilising the full potential throughout the life of the machine

- Latest comfort and performance upgrades

*Available at participating dealers.

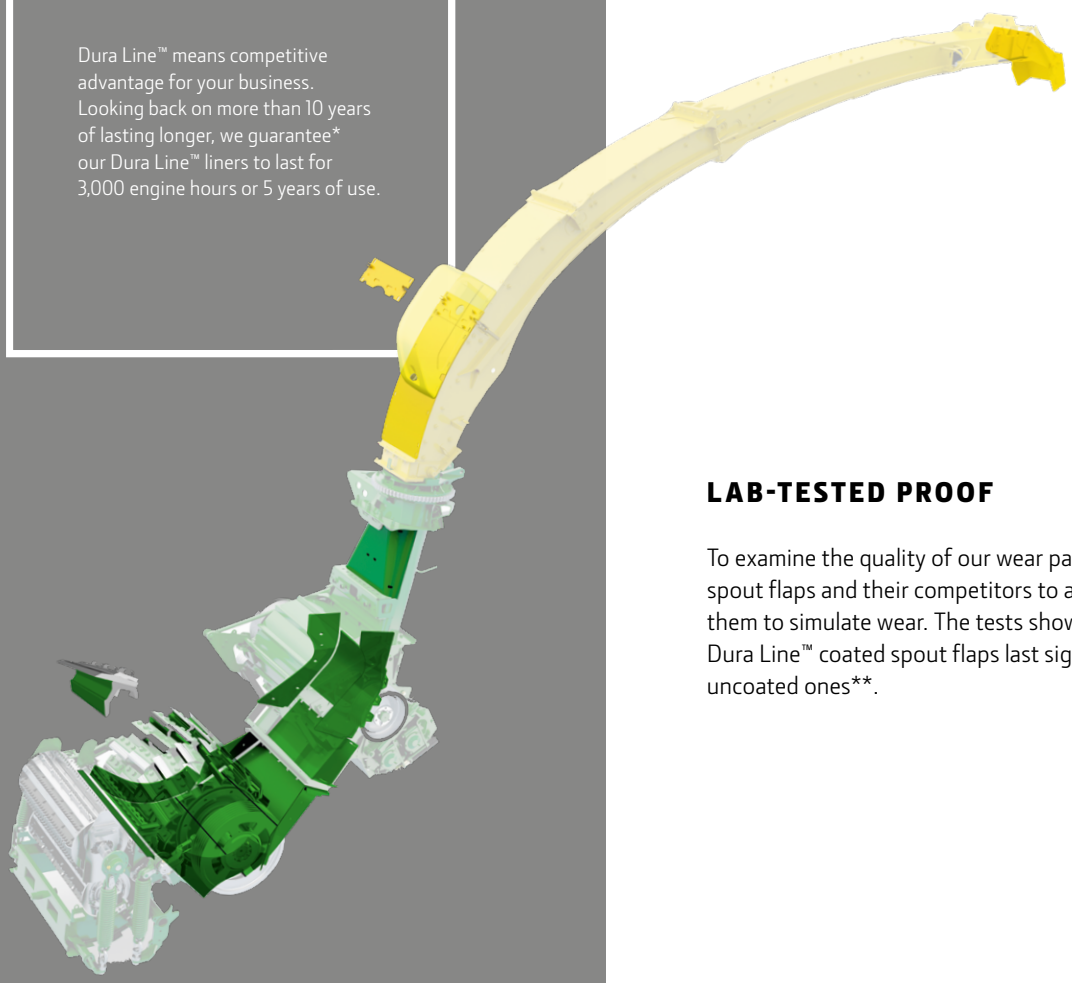


| PREVENT

COMPONENTS THAT LAST

To prevent downtime right from the start, we pack our forage harvesters full of ultra-hard wearing Dura Line™ components throughout the crop flow – shearbars, knife holders, the chute – Dura Line™ is everywhere to let you go season after season without exchanging wear components. Dura Line™ liners will save you cash. Our unique coating is stronger and lasts four times longer**.

Dura Line™ means competitive advantage for your business. Looking back on more than 10 years of lasting longer, we guarantee* our Dura Line™ liners to last for 3,000 engine hours or 5 years of use.



LAB-TESTED PROOF

To examine the quality of our wear parts, we took John Deere spout flaps and their competitors to a lab and sandblasted them to simulate wear. The tests showed that John Deere Dura Line™ coated spout flaps last significantly longer than uncoated ones**.

*Guarantee excludes shearbar, knives, knife holders, smooth roll scrapers. Ask your dealer for details.

**Internal field test, comparing John Deere wear parts with and without coating.

| PREDICT

MAXIMUM UPTIME WITH EXPERT ALERTS

Using our unique uptime Expert Alerts technology, your John Deere dealer remotely monitors the condition of your machine to identify potential machine faults and fix them before they can impact your work. When an issue is detected on the machine, you'll be contacted immediately to receive the proactive support you need to minimise downtime risk and allow you to continue to focus on your work in the field.

| CORRECT

WE WILL KEEP YOU MOVING

With our Corrective Lifecycle Solutions in place, we will fix any issue as quickly as possible to give you maximum uptime and keep you working. Our connected logistics infrastructure gets nearly every part you need to where you need it in less than 24 hours. If an uptime-relevant part cannot be delivered within 24 hours, you're eligible to receive a backup machine*.

REMOTE DIAGNOSTICS

Thanks to our Connected Support Technologies, we identify machine issues and initiate solutions in real-time, even if you are in the field.

24 HOUR PARTS PROMISE

We've invested in one of the best parts logistics in the agriculture business. With more machines in the field than any other manufacturer, we hold more parts stock than anyone else. That means we consistently deliver more than 97% of all orders in less than 24 hours.

BACKUP MACHINE*

If an uptime-relevant part cannot be delivered within 24 hours, we will provide you with a backup machine* to keep you working. The only thing you need to do: Participate in Harvest Promise or the FarmSight™ Service equivalent.

*Available at participating dealerships.

UPGRADE

ALWAYS UP-TO-DATE

Our SPFH comes packed with future-proof technology that allows you to adapt your machine to your changing needs with our growing range of performance and comfort upgrades. Continue to take advantage of the full potential of your machine by adding solutions like our HarvestLab™ Retrofit-Kit.

FAST AND FLAWLESS

GUIDANCE AND MACHINE AUTOMATION

Enjoy automatic hands-free guidance with John Deere AutoTrac™ – the essential feature for high-volume harvesting operations when you need to fully load the harvester hour after hour.

Apart from ensuring that you get a full header width with every pass, AutoTrac™ saves fuel by eliminating missed or skipped sections and lets you consistently harvest at higher speeds for hours. It also has the added benefit of taking away the stress of harvesting tall maize and other such row crops – you can relax and focus on other essential tasks and processes for cutting excellent silage. To get started with automatic AutoTrac™ guidance, take a look at our StarFire™ 7000 receiver for superior signal range and stability.

HIGH-EFFICIENCY HARVESTING

Exclusively designed for harvesting maize, Manual RowSense™ is an electro-mechanical system to precision-align the harvester with the crop rows and field contours, however irregular they may be. Easy to operate via a single button on the multi-function control lever, Manual RowSense™ will work in row spaces from 50 cm up to 85 cm.

AutoTrac™ RowSense™ is leading-edge technology that combines data from row sensors with satellite position data from the StarFire™ Receiver. Whether your challenged with down maize, curves or uneven row spacing: AutoTrac™ RowSense™ always keeps you in the right row while maintaining speed and reducing stress.

TAKING THE LEAD – MACHINE SYNC

Using Machine Sync, a follower-tractor immediately mirrors speed and heading changes of the forage harvester so that drivers can fully concentrate on trailer filling. For example, once the back of a trailer is filled, the forage harvester driver can move the tractor's position through the display without having to communicate new positioning via CB radio or hand signals.

RELAX, FILL, REPEAT – ACTIVE FILL CONTROL

John Deere Active Fill Control utilises a stereo camera to control the rotation and flap position of the spout automatically. The system can actively track trailers and aim the crop from the best position to execute a desired fill strategy, also in rear-unload conditions when opening up a new field*. Meanwhile, you can relax and bring your focus to overall harvesting optimisation and machine operation.

*requires StarFire™ receiver

BETTER INFORMATION, MORE VALUE

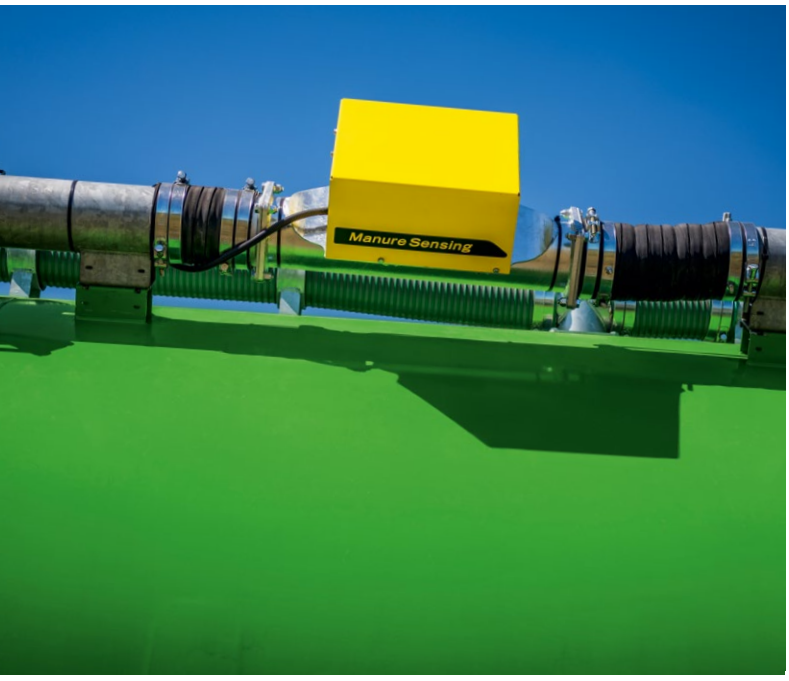
HARVESTLAB™ 3000 FORAGE AND MANURE ANALYSIS

Take real-time forage and manure information from the HarvestLab™ 3000 sensor and make in-field adjustments to create the best product you have ever delivered – on the fly, accurately and reliably.

ONE SENSOR, FOUR APPLICATIONS

You can use HarvestLab™ 3000 on an forage harvester, combine harvester, slurry tanker, or as a mobile laboratory.

Fitting HarvestLab™ 3000 to a slurry tanker lets you precisely apply N/P/K in kg/ha, save on mineral fertilizer, and achieve better and more consistent crop growth and quality.



HarvestLab™ 3000 also pays off after manure or forage harvesting season: Take it off the machine to use the sensor as a stationary unit which measures the ingredients of your ensiled material from the clamp in order to optimize your feed rations.

	FORAGE HARVESTER	MOBILE LABORATORY	SLURRY TANKER	COMBINE HARVERSTER
HarvestLab™ 3000 Sensor	■	■	■	■
Constituent Sensing Calibrations (maize & grass)	■	■	–	–
Turn Table & Stationary Kit	–	■	–	–
StarFire™ Receiver	■	–	■	■
4640 Display	■	–	■	■*
Manure Sensing Calibrations	–	–	■	–
Manure Sensing Kit	–	–	■	–
Grain Sensing Calibration	–	■	–	■
Grain Sensing Kit	–	–	–	■

AWARD WINNING TECHNOLOGY

HavestLab™ technology has proven itself in the field for years, and is a consistent favourite on the awards circuit.

Agritechnica
Silver Medal 2007
HarvestLab™

Agritechnica
Silver Medal 2011
Constituent Sensing

Fima Medal 2014

Agrotechniek
Bronze Sickle 2014

Agritechnica
Gold Medal 2015
Connected Nutrient Management

*T-Series. Integrated Gen4 display for S-Series.

INTEGRATED CROP DOSING

HarvestLab™ 3000 sensor readings also work beautifully with another feature of the 8000 and 9000 Series: the fully integrated ADS Twin Line system doses silage additives based on time, harvested tons or on dry matter tons using HarvestLab™ 3000 sensor readings. Supplied from two different tanks, the dosing nozzles are positioned at air intake of the crop accelerator and allow you to choose either fixed or variable dosing rates based on moisture readings from HarvestLab™ 3000. The twin tanks allow you to add two different inoculants together, or apply them at different times, giving you the flexibility to adapt to each specific job's needs.

Easy to read display

30 L concentrate tank

THE SECRET TO GREAT SILAGE

HARVESTLAB™ 3000 ON A FORAGE HARVESTER

HarvestLab™ 3000 simultaneously measures the dry matter and various constituents of harvested crops. Its sensor uses near-infrared-reflectance (NIR) technology that takes over 4,000 readings per second to produce instant and highly accurate data on the go. Since its introduction in 2008, thousands of HarvestLab™ units have been operating around the world, with excellent performance even in challenging field conditions.

The site-specific data from HarvestLab™ 3000 helps crop growers improve their field nutrient management much better than from a single sample sent to a lab. On a forage harvester, HarvestLab™ 3000 enables automated length of cut adjustment depending on dry matter content, ensuring optimum silage compaction and conservation. Livestock and dairy farmers profit from real-time detection of changes in feed quality and better silage additive control. Biogas producers like HarvestLab™ 3000 for the accurate information they get on the crop quality they buy.

CROP TYPE	DRY MATTER (DM)	CRUDE PROTEIN (XP)	STARCH	CRUDE FIBRE (XF)	NDF	ADF	CRUDE SUGAR (XZ)	CRUDE FAT	ASH	METABOLIC ENERGY (ME) (GFE2-008) NEW!	ELOS* NEW!
Maize	■	■	■	–	■	■	■	–	■	–	–
Grass	■	■	–	■	■	■	■	■	■	■	■
Alfalfa	■	–	–	–	–	–	–	–	–	–	–
Whole Crop Silage	■	–	–	–	–	–	–	–	–	–	–

*only available in stationary mode

CAPABILITIES AT ONE GLANCE

- DM, protein, starch, fibre, ADF, NDF, crude sugar, ash and metabolic energy analysis on-the-go
- Automatic length of cut adjustment
- Precise dosing of silage additives
- Measuring results also accessible via the Operations Center

MOBILE INTELLIGENCE

THE EVERYWHERE LAB

You can use the John Deere HarvestLab™ 3000 sensor as a stationary laboratory unit or a mobile device powered by a vehicle to obtain instant information that allows you to manage your forage and feedstuff better.

Daily analysis is critical for the best feeding management – ensuring proper bunk management, feed rationing and livestock health. Save on unnecessary supplements while attaining higher yields in beef, dairy or biogas production, and ultimately higher business profitability.

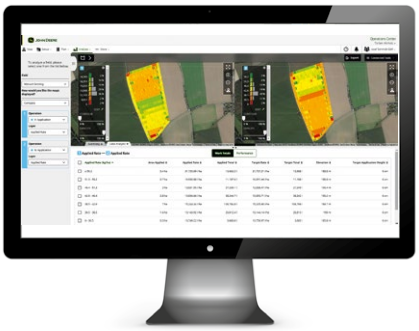
BE SMART ABOUT YOUR MANURE

HARVESTLAB™ 3000 ON A SLURRY TANKER

HarvestLab™ 3000 is manure technology with real bottom-line impact. Enjoy instant accurate on-the-go nutrient analysis with over 4,000 readings per second with comprehensive automated site-specific application and nutrient documentation. In the end, you can achieve higher yields with less mineral fertilizer, or get higher yields out of your manure by better spreading it across the field according to the nutrient needs of the soil/plants. HarvestLab™ 3000 is fully compatible with manure systems from Fliegl, Joskin, Kotte, Pichon, Samson and Vervaet, and you can also retrofit it to drag hose systems independent of brand.

1. Site-specific Application – John Deere Manure Sensing is controlled intuitively via the Generation 4 display. Prior to application, you define the target rate for one nutrient. You can then define a limit rate for a second nutrient. For an even higher level of precision you can also upload site specific prescription maps.

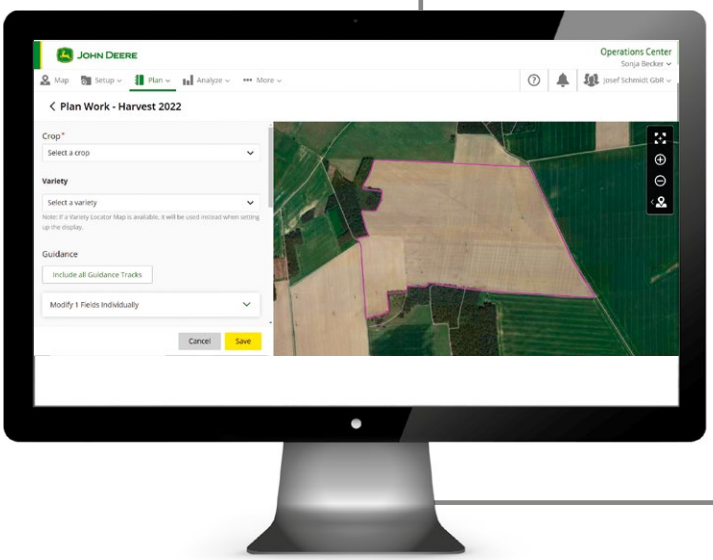
2. The NIR sensor constantly compares actual nutrient levels with target levels and automatically controls the speed and/or flow regulation to ensure the desired nutrient rate is applied. In case a given speed limit is reached, flow rates can be adjusted for selected slurry tanker brands.



3. Documentation – Nutrients can be documented site-specifically and sent to the John Deere Operations Center™. Based on this information, prescription maps for secondary mineral fertiliser application can be derived and sent back to the machine. This saves you mineral fertiliser costs and optimises the nutrient supply for your crops.

MANURE TYPE	DRY MATTER (DM)	N_{TOT}	P (P_2O_5)	K (K_2O)	NH_4
Pig	■	■	■	■	■
Cattle	■	■	■	■	■
Biogas Digestate	■	■	■	■	■

Manure Sensing does not work with digestate including bio/food waste.



WORK PLANNER

The new work planner tool lets you set up your work in the John Deere Operations Center™ in advance and send it wirelessly to any JDLink™ connected machine. Once you enter the field, all it takes is one click to get started – no delays, no mistakes, and the added advantage of simplified record-keeping and documentation.

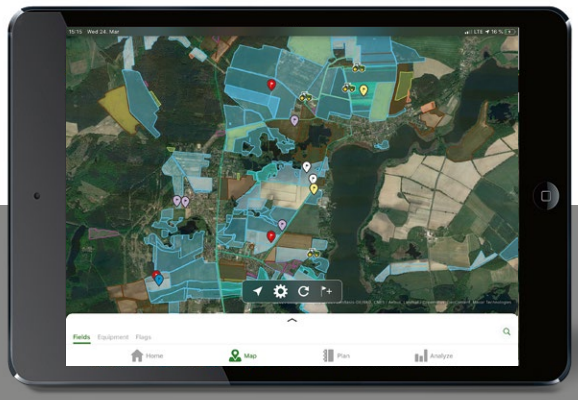
YOUR GATEWAY TO BETTER BUSINESS DECISIONS

You're managing a complex enterprise. That's why optimising the overall business depends on being well connected to your ongoing operations.

The John Deere Operations Center™ lets you turn agronomic insights into smart decisions that produce maximum yields at the highest quality while reducing your input costs. Plan your tasks for the upcoming season with a structured overview that makes it effortless to create display set-up files and work orders. Your documentation data is automatically uploaded from your in-cab display to your personal Operations Center account as tasks are completed. Now you can access your data from any internet-capable device and visualize it as a structured timeline allowing you to view your mapping or compare different map layers like yield, dry matter, protein, and more. Easily share specific data with your advisors and produce comprehensive clients reports with just a few taps or clicks.

YOUR BENEFITS

- All info in one centralised location, nicely structured and easily accessible
- Gain insights for smart, fact-based decisions
- Leverage numerous additional agronomic tools for further data processing and analysis
- Automated data transfer between machine and office in near real-time



John Deere Operations Center™ – Allocate exact field locations for the next tasks, track the work progress of your machines, assign work orders to your operators, view "as-applied" maps automatically sent from the field and create, analyse and share application reports with partners and customers.

SPECIFICATIONS

MODEL	8100	8200	8300	8400	8500	8600
ENGINE						
Engine power (rated) @2,100 rpm (ECE R120, kW(PS))	295 kW - 401 PS	310 kW - 421 PS	344 kW - 468 PS	369 kW - 502 PS	400 kW - 544 PS	428 kW - 582 PS
Engine power (max) @1,800 rpm (ECE R120, kW(PS))	317 kW - 431 PS	342 kW - 465 PS	371 kW - 505 PS	397 kW - 540 PS	430 kW - 585 PS	460 kW - 625 PS
Manufacturer	John Deere					
Type	PowerTech™ 9.0 L	PowerTech™ 13.5 L				
Model	6090HZ029	6135HZ021				
Displacement	9.0 L	13.5 L				
Cylinders	In-line six					
Fuel System	Common rail plus four valves	Unit injectors plus four valves				
Emission Regulation	Final Tier 4 / EU Stage V					
Air compressor	Optional					
Fuel Tank Capacity	1,100 L					
DEF Tank Capacity	43 L					
DRIVELINE						
Ground drive	Standard: Hydrostatic, electrical 3-speed push button transmission Optional: ProDrive™ autoshift transmission, differential lock (automatic or manual), automatic wet brake system.					
	Engine rpm on road: 1,650 rpm for Push Button transmission 1,400-2,100 rpm for ProDrive™ transmission					
Main Hydraulics	Load Sensing					
Main clutch	Dry clutch					
Number of clutch discs	One disc					
Main driveband	Reinforced with Kevlar inserts					
	Five grooves for 8100 / Six grooves for 8200-8600					
ELECTRIC SYSTEM / HYDRAULIC SYSTEM						
Type/Voltage	12 V					
Battery quantity/capacity	1 x 174 amp-hr for 8100 2 x 174 amp-hr for 8200-8600					
Alternator	12 V-200 amp					
Hydraulic system capacity	50 L					
GROUND DRIVE						
Maximum transport speed	25/30 km/h for PBST 20/25/30/40 km/h for ProDrive™					
Rear axle type	Non Powered 2WD / Hydro-Mechanical 4-WD (Optional)					
Automatic wet brake system	Available with ProDrive™ transmission					
Engine rpm - Management	Available with ProDrive™ transmission					

SPECIFICATIONS

MODEL	8100-8600
HARVEST CHANNEL	
Width	Standard Body Channel
HEADER CONNECTION	
Infinitely variable header drive	Standard
Dual Header Drive	Optional
Lateral Pivoting frame	Standard
Multi coupler	Standard
Auto PTO coupler	Optional
Header Height and float pressure control	Standard
Hydraulic actuated lateral header tilft	Optional Advanced Header Control (AHC)
Grass pick-ups (transport width)	3.0 m, 4.0 m, 4.5 m
Maize headers	6, 8, 10 or 12 rows (4.5 m, 6.0 m, 7.5 m or 9.0 m working width)
FEEDROLLS	
Feedroll frame opening	Swing away, 37-45 degree (angle)
Number feedrolls	Four
Metal detector	Standard
Stone detector	Optional
Feeding channel width, front	660 mm
Hydro feedroll drive with Infinite Variable Length of Cut	Standard
CUTTERHEAD	
Cutterhead width / diameter	680 mm / 670 mm
Speed at rated engine speed	1,100 rpm / 1,200 rpm (Option, not for 8100)
Number of knives	40 - 48 - 56 - 64 (64 not for 8100)
Knife types available (crop)	Straight (grass/universal)
	Curved (Maize)
Shearbar options	Grass, Corn, Dura Line™ Corn, Dura Line™ Plus
LENGTH OF CUT	
40 knife cutterhead	7-26 mm LOC in 1 mm steps/ 1,100 rpm
48 knife cutterhead	6-22 mm LOC in 1 mm steps/ 1,100 rpm
56 knife cutterhead	5-19 mm LOC in 1 mm steps/ 1,100 rpm
	4-17 mm LOC in 1 mm steps/ 1,200 rpm (not for 8100)
64 knife cutterhead	3-15 mm LOC in 1 mm steps/ 1,200 rpm (not for 8100)

SPECIFICATIONS

MODEL	8100-8600
KNIFE SHARPENING SYSTEM	
Reverse rotation	Yes
Sharpening control	Remote from cab
Sharpening modes	Grinding and finishing
KERNEL PROCESSOR	
Available KP types	Premium KP™, XStream KP™ (not availablefor 8100-8200)
Quick KP removal	Crane with remote controlled electric hoist
KERNEL PROCESSING OPTIONS	
PREMIUM KP™	
Housing	Standard KP housing
Lubrication	Grease
Roll diameter	240 mm
Speed differential	32% (Standard) 40% (Option)
Maize, Sawtooth	118/118
Maize, Sawtooth Dura Line™	118/118
Maize, High intense Sawtooth Dura Line™	110/144
Wholecrop, Sawtooth	178/178
XSTREAM KP™ (not available for 8100-8200)	
Housing	Heavy Duty Housing
Lubrication	Pressurized oil
Roll diameter	250 mm
Speed differential	50% (standard) 40% (Parts bundle)
Maize, Sawtooth Dura Line™	110/145
Maize, X-Cut Dura Line™	110/145 Sawtooth with additional spiral groove
Wholecrop, X-Cut Dura Line™	145/165
CROP ACCELERATOR	
Rotor Width / Diameter	620 mm / 560 mm
Number of blades	10
Rotor Speed	1,800 rpm
SPOUT	
Rotation	210°
Reach from centre line (optional)	4.73 m (5.87 m, 6.71 m not availabale for 8100-8200)
Working height (maximum)	6.60 m
Spout Camera	Optional
Active Fill Control	Optional

SPECIFICATIONS

MODEL	8100-8600	
CAB		
Panoramic view windows	Standard	
Touch screen display	Standard	
Refrigerator	Optional	
Bluetooth and DAB+	Optional	
PRECISION AG TECHNOLOGY		
Yield monitoring	Harvest Monitor™ optional	
Documentation	Harvest Doc™ optional	
Crop analysis	HarvestLab™ 3000 optional	
Length-of-cut control based on crop	AutoLOC™ optional with HarvestLab™ 3000	
Assisted steering	Optional: AutoTrac™ / Manaul RowSense™ / AutoTrac™ RowSense™ / Machine Sync	
FRONT TYRE OPTIONS		
MACHINE WIDTH	**Front Tire**	**Rear Tire**
3.0 m	650/85 R38	500/85 R30
	710/70 R42	540/65 R30
	710/75 R42	500/85 R30
3.2 m	710/70 R42	620/70 R30
3.3 m	710/75 R42	620/70 R30
	800/70 R38	620/75 R30
	800/70 R42	650/60 R34
3.5 m	900/60 R38 900/60 R42	620/70 R30
		620/75 R30
		650/60 R34
		710/60 R30
		750/65 R26
VEHICLE DIMENSIONS		
Transport length (without header)	6.6 m	
Transport width (without header)	3.0-3.49 m	
Transport height (to cab roof)	Below 4.0 m	

NOTHING RUNS LIKE A DEERE™

As technology like the 8000 Series evolves, and as your business evolves, you can count on one thing: we're there when you need us – 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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