Self-Propelled Forage Harvesters

New models for 8000 Series

JOHN DEERE

Not just forward thinking. **Forage thinking.**

No one brings more experience to the forage harvesting business than John Deere. Since 1837, we've been making innovative solutions for farming. And we've used those years of field experience to create field equipment that works quickly, yet gently. Despite nearly 50 years in the forage harvesting business, we invested more in research and development of this new generation of forage harvesters than ever before.

Not only will John Deere forage harvesters help you produce premium-quality silage, but they can be equipped with technology tools that will simplify and speed decision making, reduce operating costs and improve your bottom line.

Forage harvesters are complex machines. And John Deere is the only agricultural equipment manufacturer that designs and builds its own engines, drivetrains, hydraulics, cooling systems, electronics and telematics. We have a lot of experience with forage equipment, but we know that's no substitute for making forage year after year. And that's why we asked what you wanted.

The 8000 Series Self-Propelled Forage Harvesters are built by John Deere. But their design comes straight from you. With eight models, ranging from 375 to 832 horsepower, the 8000 Series delivers easier serviceability, improved crop flow and a best-in-class cab for all-day comfort and better visibility.

With the all-new design, the 8000 Series is lighter in the field when fully ballasted for corn harvesting. Less weight means less fuel consumption. We made improvements in the efficiency of the crop flow and cutting system, which consumes almost 75% of the total engine power, and that adds up to big fuel savings. The larger tire footprint spreads the machine load for better traction, less compaction, and less power loss in soft soil conditions.

Whether you're a dairy or a beef operator focused on chopping quality feed for your herd, or a custom harvester looking for equipment that keeps your customers satisfied, you've come to the right place.

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With 8 models, the 8000 Series Family is now complete.

The addition of three all-new models, ranging from 483 to 832 horsepower, means there are three wide-body and five standard-body models to choose from. That means there's an 8000 Series Self-Propelled Forage Harvester that's right for you.

On the 8000 Series, our engineers matched the crop flow to engine horsepower, and the higher throughput allows you to cut faster, even in heavy, tall crop, without sacrificing the quality of cut or kernel processing. That's why our three higher-horsepower models have a wide-body design.

No matter which 8000 Series SPFH you choose, what you get is consistent, high-quality forage, excellent cutting performance and day-in, day-out reliability.

Our rotary row-independent corn heads are legendary for their high capacity, reliability and low maintenance requirements. Choose from several widths with small or big drum heads and get through your tough crop efficiently.

	Rated Power
Wide-body models	
New 8880	832 hp
New 8700	755 hp
8600	616 hp
Standard-body models	
8500	577 hp
8400	532 hp
New 8300	483 hp
8200	425 hp
8100	375 hp

Balance of power and efficiency.

With eight high-efficiency models, ranging from 375 to 832 horsepower, the 8000 Series delivers the right power for your needs. No matter how many acres you harvest, what crops you have or how far apart your fields are, we have the right size forage harvester for you.

In addition to powerful, fuel-efficient John Deere-designed engines, oil and filter changes are needed only every 500 hours.

Harvesters equipped with ProDrive benefit from fuel-saving engine speed management. This automatically matches engine rpm to the harvester's power requirements for different field and road conditions.

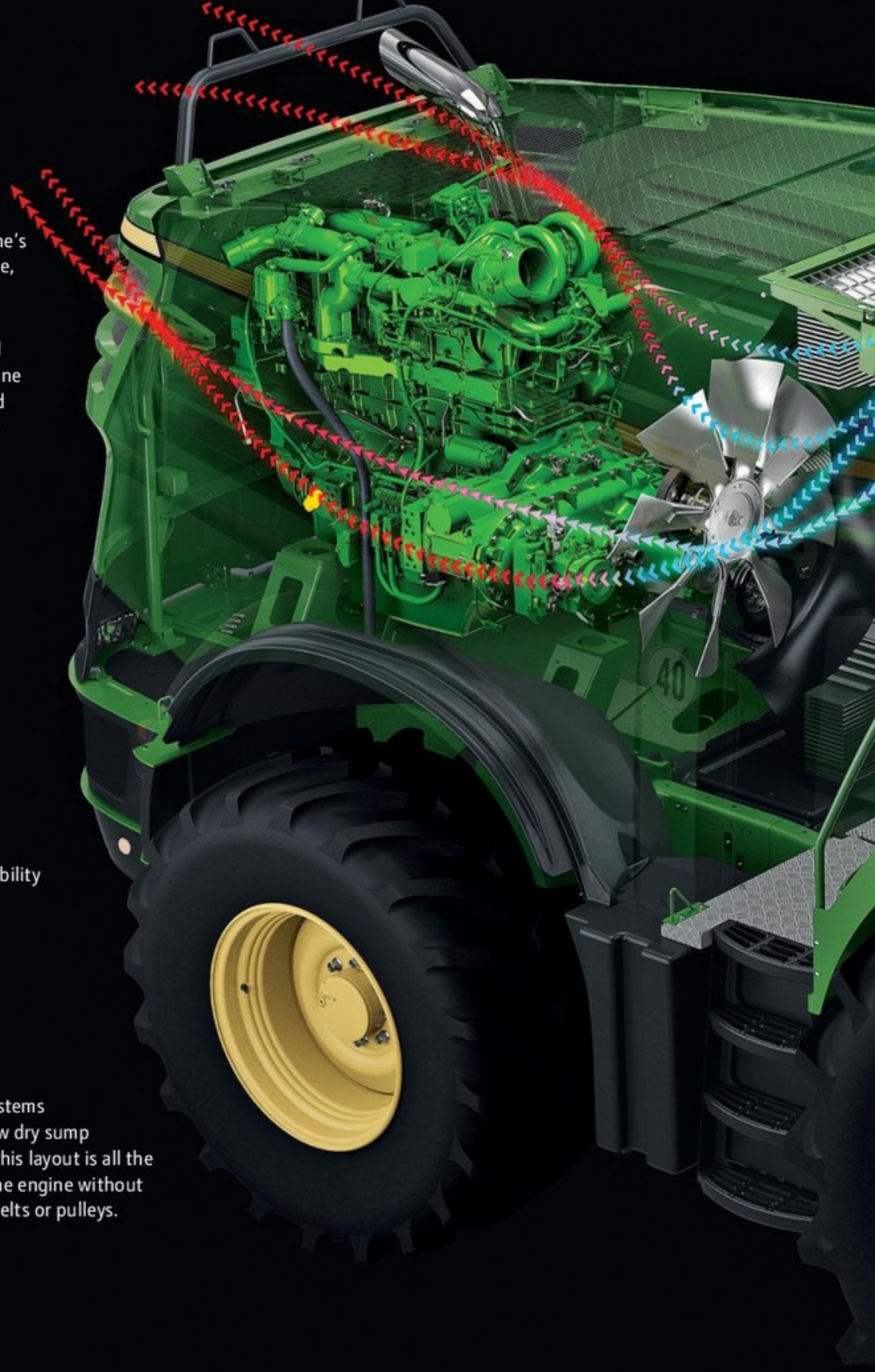
Optimum cooling
The longitudinal layout means more of the engine's surface area is on the outer edges of the machine, unobstructed by other components.

Cool air is drawn in through the channels behind the cab and is guided along the sides of the engine to the rear vents. This layout eliminates the need for the larger, power intensive cooling packages with transverse engine (east to west) layouts.

Smart design
The longitudinal engine layout (the front to back orientation), has several important advantages over a transverse layout.

Narrower body
A narrower machine allows for excellent rear visibility for improved safety and better maneuverability.

Efficient driveline
The angular gear transfers power to the drive systems with minimal power loss ~0.5% thanks to the new dry sump lubrication technology. An added advantage of this layout is all the hydraulics and the fan are driven directly from the engine without the need for complex couplings and additional belts or pulleys.



Excellent engine access
The side and rear panels provide uninterrupted access to all the regular maintenance items for rapid servicing and maintenance. Optional service lighting package shown.

Headers for any crop.

The 8000 Series machines are designed for versatility. Grass crops, whole crops or corn — our headers let you match your forage harvester to the crops you grow or chop.

Rotary headers
The John Deere rotary row-independent heads are low-maintenance and high-capacity. And because row spacings are irrelevant, you can cut the field in any direction you want, matching field efficiency with trailer capacity.

Combine corn headers
Our ear corn headers can chop the entire ear of corn into useful feedstuff for cattle. With an adapter, John Deere combine corn headers can be used on the new 8000 Series machines. All corn header function will be activated when the multicoupler is attached. Lateral tilt, universal Row Sense, and all header functions are enabled.

Drapers
If you're chopping wheat, barley or triticale, you get a one-pass harvesting solution with our 625D and 630D Draper Platforms.

Crop	Model	Working Width ft. (m)	Type
Grass/Hay			
	639	9.8 (3)	Paddle Auger
	649	13.1 (4)	Paddle Auger
	659	14.8 (4.5)	Paddle Auger
Corn			
	676	14.8 (4.5)	Big Drums
	778	19.7 (6.0)	Big Drums
	696	14.8 (4.5)	Small Drums
	698	19.7 (6.0)	Small Drums
	692	29.5 (9.0)	Small Drums
	690	24.6 (7.5)	Small Drums
	770	24.6 (7.5)	Big Drums

Header	Width ft. (m)	8100	8200	8300	8400	8500	8600	8700	8800
676	14.8 (4.5)	■	■	■	■	■			
778	19.7 (6.0)				■	■	■	■	■
696	14.8 (4.5)	■	■	■	■	■			
698	19.7 (6.0)				■	■	■	■	■
690	24.6 (7.5)						■	■	■
692	29.5 (9.0)						■	■	■
770	24.6 (7.5)						■	■	■

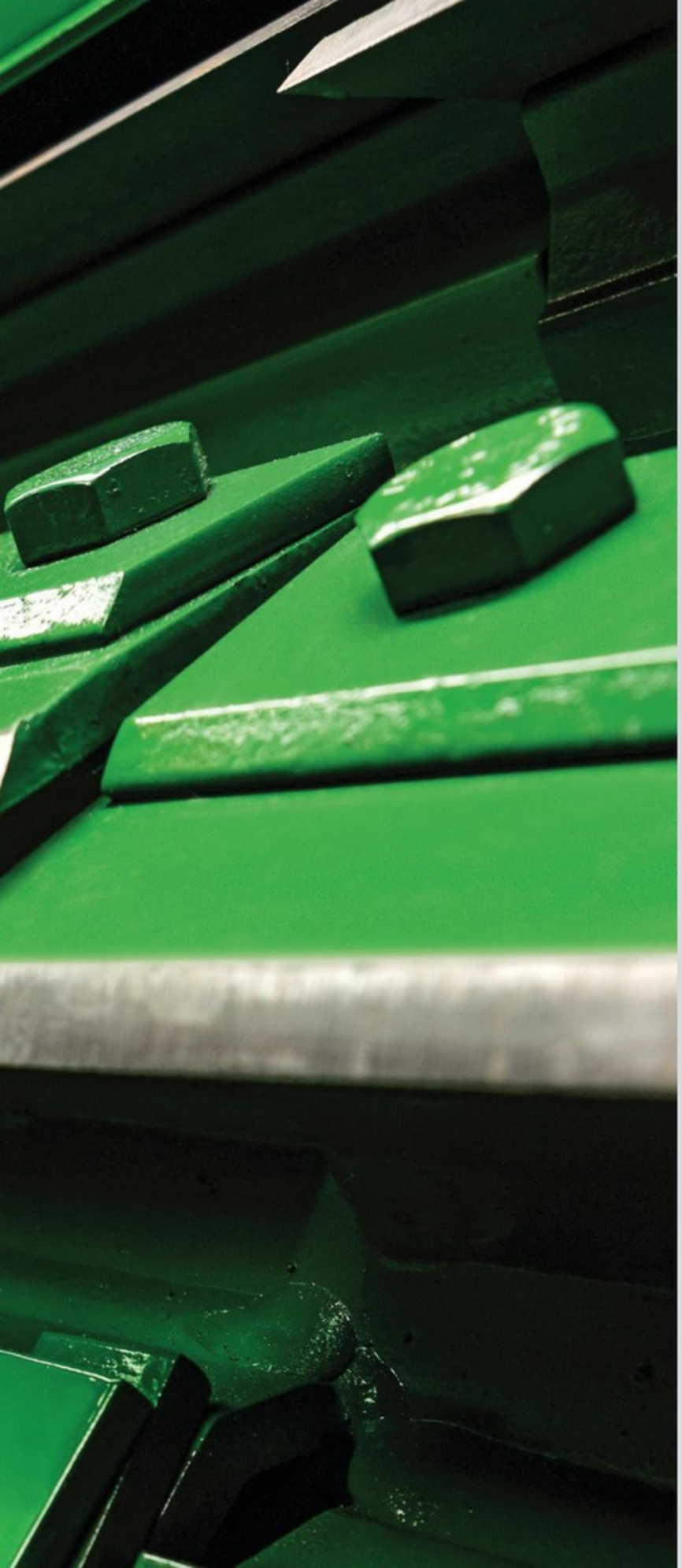
Hay pickups
The new 9 series auger flighting provides smoother crop flow. With automatic speed matching of the auger speed with the feedroll speed, productivity is further enhanced. With the optional dual header drive feature, tine speed can be automatically matched to ground speed.

Better quality starts with the cut.

The quality of your forage is critical to your business. John Deere's DuraDrum™ cutterhead was already renowned for producing the best quality forage. Now it's even better. When you add our infinitely variable length of cut and proven kernel processor, you can cut any combination of high quality forage to satisfy even the most demanding customers.

The larger diameter of the DuraDrum 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 for lower power consumption. An all-new hydraulic cutterhead brake stops the drum in just 7 seconds. If you choose you can sharpen your knives with the new hydraulically driven sharpening stone. Setting the shearbar takes less than a minute and can be done independently. That means you can get the job done quickly to keep your knives razor sharp for a longer life and more efficient cutting. And the combination of the new shearbar adjustment and revised knife design uses the full width of the tungsten coating without having to readjust the knives. So there's less work for you and the knives.

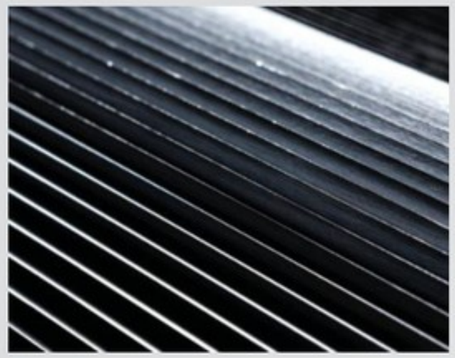
We've increased the length of the tungsten carbide coating, so knives last longer and operating costs are lower. And the newly designed knife holders help create a more uniform and focused crop stream. They also optimize the point of exit for the crop, helping to reduce the overall power demand of the crop flow. When you're chopping nonstop, that adds up to significant fuel savings.



Kernel processing for better digestibility.
Give your silage a boost in nutrient value with a kernel processor, which cracks each kernel for improved ruminant digestion.

For the 8000 Series, we've completely redesigned the entire processor for more reliable performance and better kernel processing. Our kernel processor design features two rolls rotating in opposite directions and at different speeds. The gap between the two rolls determines the pressure on the crop as it feeds through the kernel processor. The gap can be adjusted manually or electrically from the cab. All models feature a 32% roll speed differential and the tooth profile of the bottom roll is reversed for more thorough processing.

The **KernelStar** kernel processor now features up to fifty percent larger disc diameter and the same new adjustment mechanism and stronger springs as the roller processors. The patented design has two key advantages over straight-edged or cylindrical roller kernel processors. Beveled discs smash every kernel for maximum starch release and higher nutrient value. And it has a higher throughput, so you can cut faster, even in heavy, tall crop.



5-minute changeover.
The kernel processor can be removed in just 5 minutes for rapid changeover during overlapping harvest seasons. A swing-out, swing-in design lets you lift out the kernel processor and replace it with the grass chute with ease. And, when you want to remove the kernel processor, use the optional integrated crane to lift it out of the machine without any additional support or tools.

The length of cut you want.
A wide cut length range allows you to give customers the flexibility they want. Choose a 40-knife cutterhead, which delivers between .275- and 1.0-inch cut, in .04-in increments, or a 48-knife cutterhead, which delivers between .24- and .87-inch cut, in .04-in increments.

Exceptionally efficient chopping power.

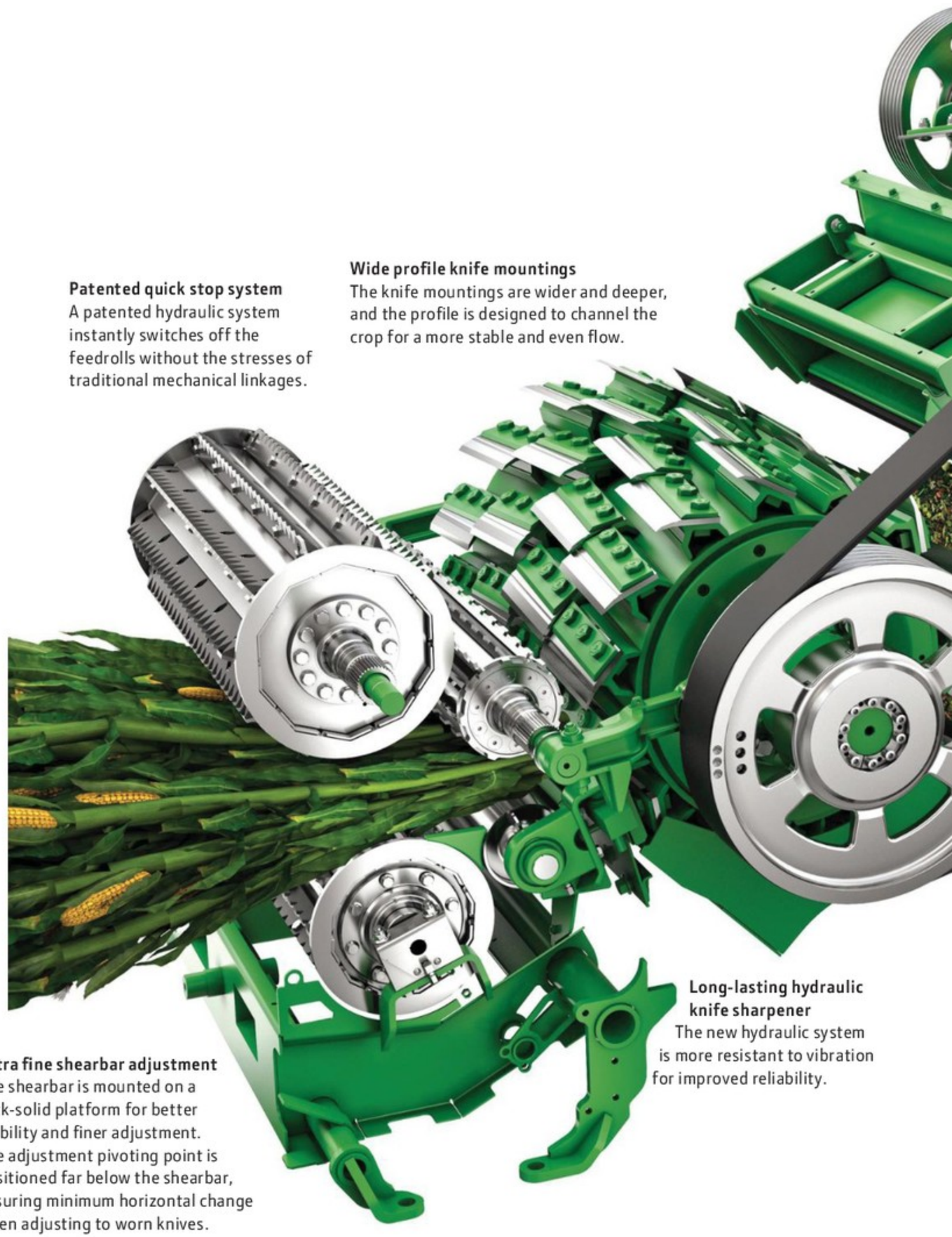
The 8000 Series crop flow path has been completely redesigned with extra heavy-duty components for improved throughput. The smooth, gentle arc of the channel minimizes resistance for an even crop flow stream and longer wear.

Patented quick stop system
A patented hydraulic system instantly switches off the feedrolls without the stresses of traditional mechanical linkages.

Wide profile knife mountings
The knife mountings are wider and deeper, and the profile is designed to channel the crop for a more stable and even flow.

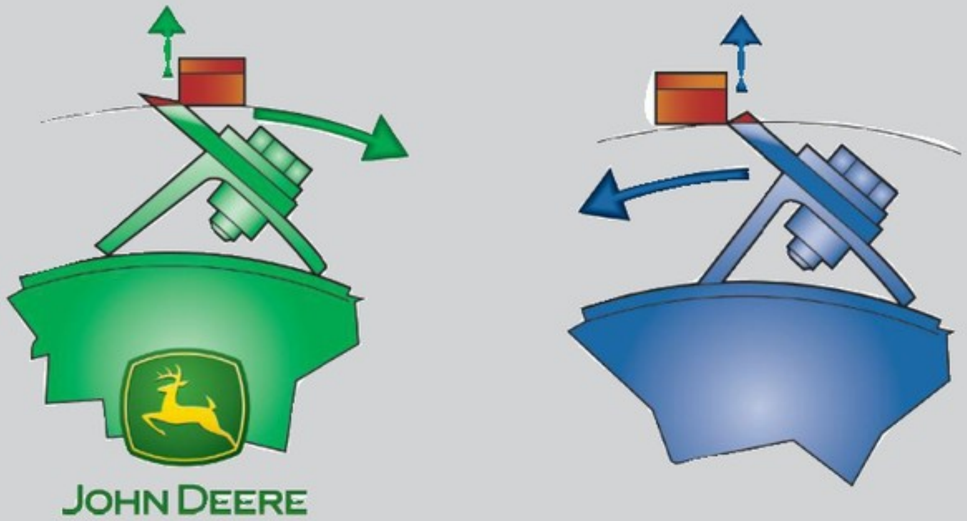
Fast header attachment
Hooking up headers is fast and easy. This can easily be done in under 4 minutes.

Positive crop handling
The toothed profile on the feedrolls ensures better pickup of the crop from the header.



Extra fine shearbar adjustment
The shearbar is mounted on a rock-solid platform for better stability and finer adjustment. The adjustment pivoting point is positioned far below the shearbar, ensuring minimum horizontal change when adjusting to worn knives.

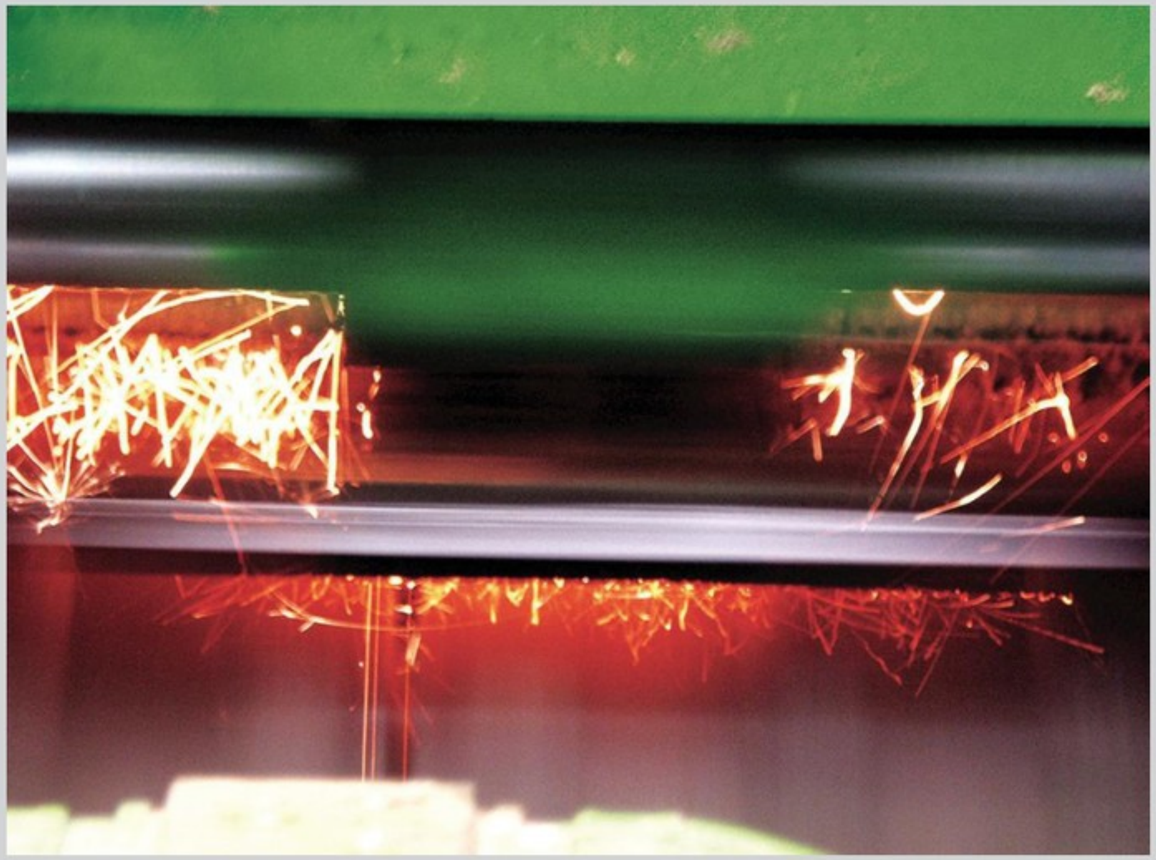
Long-lasting hydraulic knife sharpener
The new hydraulic system is more resistant to vibration for improved reliability.



Sharpen in reverse for a superior cut
Sharpening in reverse strikes the heel of the knife first, drawing the stone across the face toward the edge. This hones the edge into a fine cutting point. With the John Deere sharpening system (on left), knives stay sharper longer. Replacement is reduced and you save time and money. Other sharpening systems (image on right) that don't sharpen in reverse can actually lengthen the edge, leading to a need to re-bevel the knife.

ProStream focused crop stream
The crop accelerator forms a powerful crop stream for fast and accurate trailer loading

5-minute kernel processor changeover
The kernel processor has been repositioned behind the front axle and can be easily accessed via the service area behind the cab. The swing in/swing out design means it can be moved out of the crop flow and replaced with a grass chute in under 5 minutes, or removed in under 10 minutes with the optional crane.



Cover removed for demonstration purposes.

Quality forage requires that when the crop is ready, so are you.

That means long days with hours spent in the cab. And that's why we have redesigned the cab on the 8000 Series to keep you comfortable and in control. All controls are at arm's length, with all key machine operation functions and programmable keys for repeatable tasks conveniently placed on the CommandArm,™ which moves with the seat. The multifunction hydro handle allows for one-handed control of ground speed, header, spout,and feedroll engagement. Getting in and out of fields quickly is even easier with ProTouch. With the press of a button, you can fold/unfold gauge wheels or the rotary head, turn off/on rotary beacons, engage/disengage 4-wheel drive, move the spout to the proper position and engage/disengage engine speed management.

Connect your devices via Bluetooth to the audio system for hands-free calling or playback. And a series of 12V outlets lets you charge your phone or tablet. Available video cameras can be added and viewed through the GreenStar™ display. The large, refrigerated compartment keeps your drinks or lunch cold during long, hot harvest days. The ComfortCommand™ air suspension seat cushions your back from jolts and vibrations on uneven surfaces. And a wide front window, slim cornerposts and taller glass side panels give better visibility for more accurate trailer loading. The integrated water tank is handy if you need to clean up after a job. And an optional air compressor is equally useful for removing dust from the radiator screen or cleaning the cab.

Ensure your crop doesn't end up on the ground. The optional Active Fill Control uses cameras with 3D capability to automatically detect the crop transport truck or trailer, and fill it evenly and without spillage. As the camera detects a truck, it automatically begins tracking with the spout. Then it controls the rotation and cap position of the spout until the truck is filled.

The available Automatic Spout Positioning allows you to store up to three spout positions. The spout height, rotation, and cap position can all be preset and stored. With a spout reach between 15 (standard), 19.2 and 22 (optional) feet, 210 degrees of rotation and standard hydraulic raise and lower, you'll find maneuvering the spout just where you need it to be simple.

For a better harvest, just ask for guidance.

With a GreenStar™ 3 2630 Display and a StarFire™ 3000 Receiver, you can choose the level of accuracy you need from +/- 13 inches down to sub-inch RTK. You can move the components from machine to machine to maximize your investment.

AutoTrac™ guidance is essential for a better harvest. It gives you a full header width with every pass, saves fuel by eliminating missed and skipped sections of the field, ensures easier trailer loading and allows for harvesting at higher speeds.

Manual RowSense, designed for 30-inch corn, works by using feelers mounted on the rotary corn header. Controlled by one button on the hydro handle, RowSense is easy to use. It allows you to focus on other critical functions.

AutoTrac RowSense integrates the satellite positioning data from the StarFire receiver with data gathered from the row sensors on the corn head. This delivers a high level of accuracy.

Coverage Map Sharing and **Guidance Line Sharing** help improve harvest. This increases efficiency in the field, because two harvesters can work simultaneously with each operator having immediate access to coverage maps and guidance lines to ensure complete field coverage.

Ask your dealer about available technology packages.

Harvest crops — and data.
An 8000 Series machine is more than a forage harvester, it's a total harvesting solution. Each machine has available tools that can help you more efficiently monitor your equipment, manage your logistics and collect and analyze your data.

JDLink Connect keeps tabs on your equipment from any Internet-connected device. You can document fuel usage and machine status, collect a permanent record of your harvest data, and get alerts for upcoming maintenance or for unexpected issues.

JDLink Connect can send harvest data wirelessly to MyJohnDeere Operations Center, which allows you to analyze and share your information with trusted advisors or generate reports to help make decisions.

We've designed the 8000 for dependable performance and reliability, but if you have a problem, your dealer can get you running again faster with Remote Display Access* and Service ADVISOR™ Remote. With Remote Display Access, you or your dealer can view an operator's GS3 2630 Display remotely. No more guessing what screen the operator is on. Your dealer can remotely access your harvester's diagnostics system to diagnose a problem so the technician can bring the right parts.

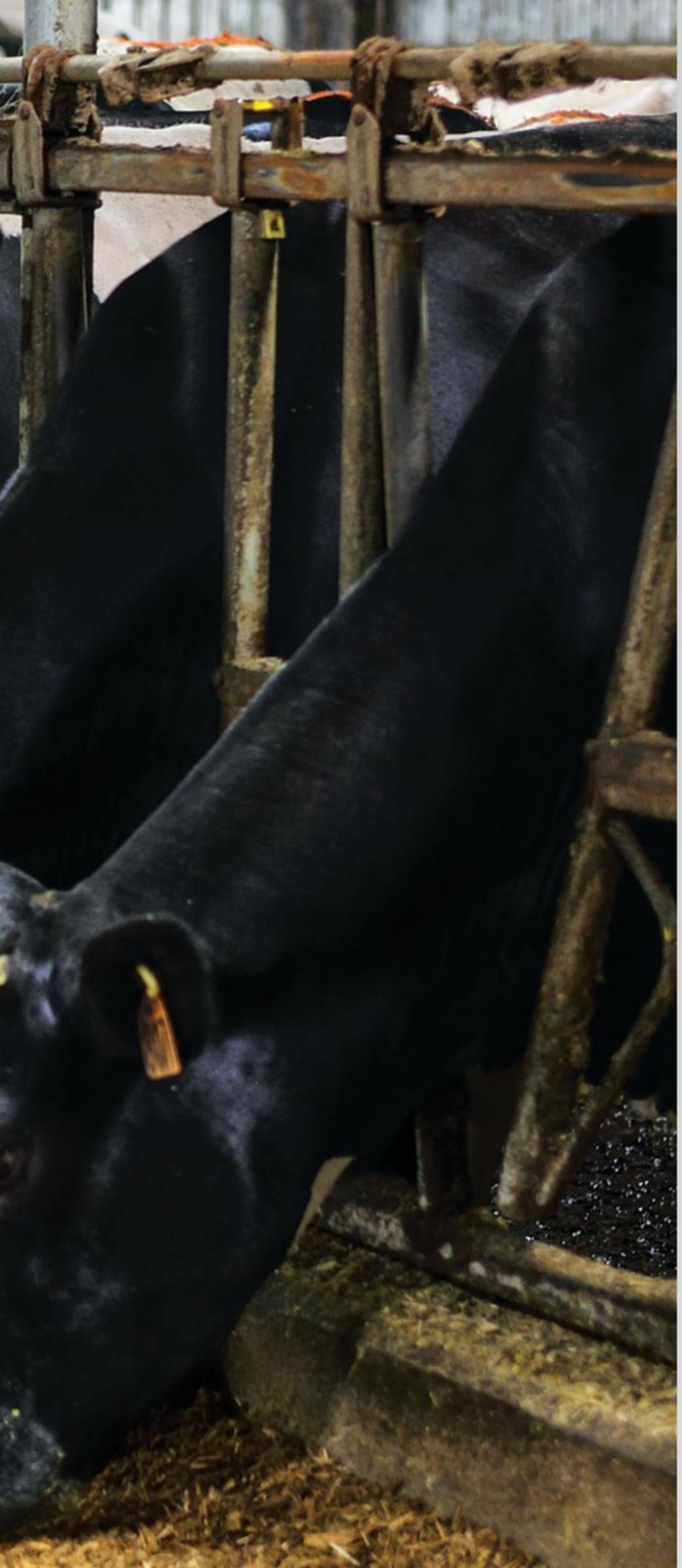
*Remote Display Access and Service ADVISOR Remote require a JDLink Activation to work. JDLink requires a cellular data connection to transfer information from machine to JDLink. Consult your local John Deere dealer for coverage availability.

With guidance and the additional optional lighting package, you can harvest as efficiently at night as you can during the day! The 8000 Series is equipped with a wide range of lights for both harvesting and on-road driving. All lights are individually controllable from the cab.

Real-time harvest analysis.

You know that the dry matter content of your crop can vary from one side of the field to another. Using guesswork, hunches and past harvests to determine what length to cut is a thing of the past.

New, fully integrated Advanced Dosing System
Further increase your nutrient value with integrated crop dosing. Featuring two separate tanks, a 7.9-gallon (30-liter) concentrate tank positioned alongside the cab for easy access and a second, 80-gallon (300 liter) water tank located under the shielding at the rear of the machine. The liquid dosing nozzles are located in the crop accelerator for easy access. Choose either fixed or variable dosing rates based on tonnage readings from HarvestLab.



The HarvestLab system

HarvestLab moisture sensor
The key component to consistent, high-quality silage is the HarvestLab moisture sensor. It mounts easily to the top of the spout and takes real-time moisture readings of the crop. Moisture levels are measured 10 times per second using Near Infrared Technology (NIR) that gives you readings that aren't affected by humidity or atmospheric conditions. This information allows you to select the best length of cut and the application rate of any inoculants, and precisely measure the amount of crop harvested. Requiring no set-up, HarvestLab is factory calibrated, will work in a variety of crops, and is accurate even at high throughput.

Constituent Sensing
When using the expanded Constituent Sensing capability in corn or alfalfa, you can predict crude protein, starch and fiber (ADF/NDF), which are important nutrient factors in livestock feed. With HarvestLab's real-time analysis, you and your nutritionist can quickly and easily determine feed rations and make adjustments on a daily basis to improve feed quality.

Harvest Monitor™
Harvest Monitor analyzes data from the mass flow sensor on the front feed rolls and the harvester's central computer, then displays all the key information on the GreenStar™ display. This includes acres per hour, tons per hour, area harvested, mass, yield, fuel consumption and dry matter content.

HarvestDoc™ software
HarvestDoc software records key field and crop data, including yield and GPS location, while harvesting. This on-the-go data can be saved and downloaded to APEX for analysis and reports.

AutoLOC™
AutoLOC automatically varies the length-of-cut of the crop based on the moisture readings from the HarvestLab moisture sensor. The operator can dial in the precise cutting length based on forage conditions.

Genuine John Deere Parts: There's nothing like the real thing

When it's time to replace a part or two on your forage harvester, don't let your eyes deceive you. Other brands may look the same, but there is no substitute for Genuine John Deere parts. Why? Not only are they made to meet exact design specifications for your machine, but they're also manufactured from the highest quality materials. Consequently, Genuine John Deere parts can last longer and perform better than look-alikes.

Take our Plus-50™ II oil, for example. When used with a John Deere filter, it can provide you with up to 500 hours between drain intervals. That's twice as long as standard oil! That means you'll use less oil and fewer filters, while reducing maintenance costs and downtime. And savings like that more than cover your initial investment in high-quality oil.

That same story can be told about other frequently replaced parts, too...such as our cutterhead knives and shearbars. So don't skimp. Instead, insist on the best: Genuine John Deere parts. You'll be glad you did.

Save money with an upper front feedroll that features **bolt-on serrated or straight replaceable teeth bars** specifically designed for high wear conditions, sandy soil, and high-yield corn.

Two knife options are available: Choose

1. **grass knives** if you work primarily in hay;
2. **wide corn knives** stay sharper in corn, especially under abrasive conditions

Heavy-duty video observation system
Reducing crop loss can really increase your profits. And the John Deere heavy-duty video observation is a great tool for doing just that. The full-color display makes it easy to monitor your crop flow so you can boost unloading efficiency and accuracy. It's also easy to move the camera to other machines.

Spout extension
Reach tall wagons and unload with greater precision by adding a John Deere unloading spout extension.

Supporting your business is our business.

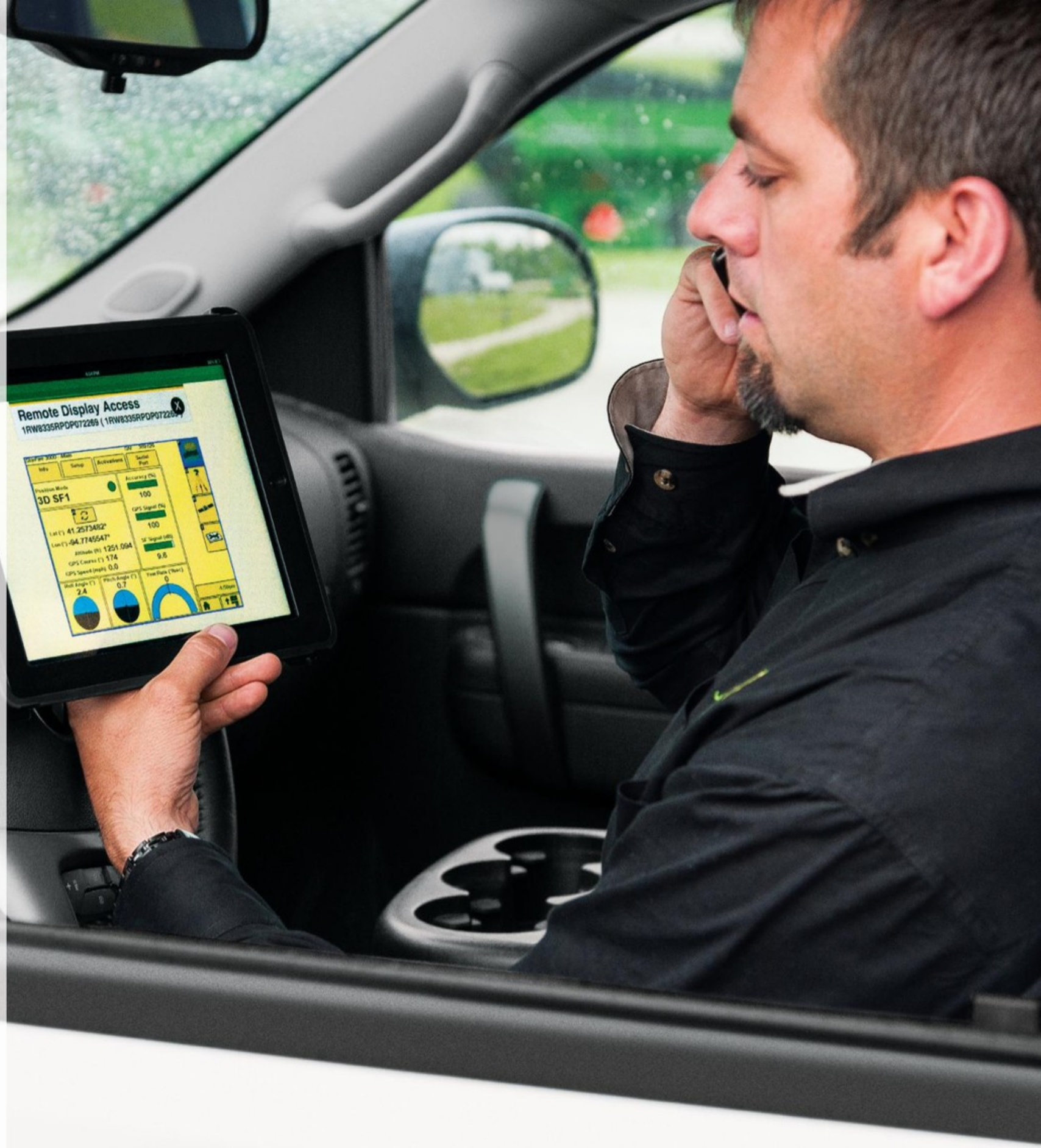
When you invest in an 8000 Series SPFH, you don't just get the most advanced and efficient harvesting machine in the world. You also get a support network that's geared up to keep you harvesting.

Professionally trained service technicians know every part of your machine and use the latest diagnostic tools to identify any issues.

Service packages that protect your investment.

A PowerGard plan helps you stay on top of operating costs by focusing on preventive maintenance. It allows you to purchase extended engine and powertrain warranty coverage for up to a total of 5 years or 3,000 hours. Or you can add bumper-to-bumper coverage to extend the standard 1-year warranty.

This will help ensure your forage harvester is maintained properly for peak performance and top resale value.



The PowerGard Protection Plan (Limited or comprehensive) does not cover headers, attachments, maintenance or high-wear items, Cummins™ engines, or other non-covered components specifically mentioned in the contract terms. Cummins is a registered trademark of Cummins Incorporated.

When you're not chopping, you're not making money.

John Deere Self-Propelled Forage Harvesters were designed to make servicing fast and easy to keep you chopping. Because besides fuel, service and maintenance are the biggest operating costs you have.

Like the automatic greasing system located in the service area behind the cab. This eliminates the need for daily greasing. The engine radiator screen slides out for easy cleaning with the optional air compressor. There are also fewer moving parts and many maintenance-free components for better reliability. Using common parts like air and engine filters means they are often in-stock at your local dealer. And high-wear parts like knives have thick tungsten carbide coatings to extend their life.

Optional service lighting package
Light up your machine with the service lighting pack. With a light under the back hood, under the left and right gull wing doors, over the cutterhead and sharpening system, and in the service compartment, you can complete daily maintenance faster.

Easy clean radiator screen
The engine radiator screen slides out for easy cleaning with the optional air compressor.

Long-lasting components
Extra-thick tungsten carbide coatings on the knives extend their service life significantly. Ultra hard-wearing DuraLine components are also available for the crop flow wear panels, lasting 5 times longer than standard parts.

Specifications

	8100	8200	8300
Power	ECR R120	ECR R120	ECR R120
Rated power @ 2100 rpm [hp (ps)]	337 (340)	396 (401)	447 (453)
Maximum power @ 1900 rpm [hp (ps)]	375 (380)	425 (431)	
Maximum power @ 1800 rpm [hp (ps)]			483 (490)
Engine			
Exhaust Emisson Regulation Compliance	Tier 4 final	Tier 4 final	Tier 4 final
Manufacturer, Type	John Deere PowerTech™ PSS	John Deere PowerTech™ PSX	John Deere PowerTech™ PSX
Model	6090HZ015	6090HZ015	6090HZ013
Engine RPM management	Optional	Optional	Optional
Displacement [L]	9.0	9.0	13.5
Cylinders	In-line 6	In-line 6	In-line 6
Fuel system	Common Rail + 4 valves	Common Rail + 4 valves	Unit Injectors + 4 valves
Cooling fan drive	Direct	Direct	Direct
Driveline			
Main clutch	Dry Clutch	Dry Clutch	Dry Clutch
Number of discs	1	1	1
Main driveband	Re-inforced with kevlar inserts	Re-inforced with kevlar inserts	Re-inforced with kevlar inserts
Belt tensioning	Active, hydraulic pressure	Active, hydraulic pressure	Active, hydraulic pressure
Main polybelt driveband: no. of belts	6	6	6
Ground drive			
Hydrostatic, 3 speed - manual shift, helical gears	Standard	Standard	Standard
Engine RPM on road	1650	1650	1650
Maximum transport speed [mph (km/h)]	12.4 / 15.5 / 18.6 (20 / 25 / 30)	12.4 / 15.5 / 18.6 (20 / 25 / 30)	12.4 / 15.5 / 18.6 (20 / 25 / 30)
Prodrive,™ autoshift transmission, differential lock (automatic and manual), automatic wet brake system	Optional	Optional	Optional
Engine RPM on road	1650-2100	1650-2100	1140-2100
Maximum transport speed [mph (km/h)]	12.4 / 15.5 / 24.9 (20 / 25 / 40)	12.4 / 15.5 / 24.9 (20 / 25 / 40)	12.4 / 15.5 / 24.9 (20 / 25 / 40)
Hydro-mechanical 4wd rear axle	Standard	Standard	Standard
Hydro-mechanical rear axle + Full ASR	Optional	Optional	Optional
Feed Rolls			
Number	4	4	4
Metal detector	Standard	Standard	Standard
Stone Detection	Optional	Optional	Optional
Width, front [in]	26	26	26
Hydro Feed roll drive IVLOC	Standard	Standard	Standard
Infinitely variable header drive speed	Standard	Standard	Standard
Frame opening	Swing-away, 37-45 degree angle	Swing-away, 37-45 degree angle	Swing-away, 37-45 degree angle

8400	8500	8600	8700	8800
ECR R120	ECR R120	ECR R120	ECR R120	ECR R120
495 (502)	536 (544)	574 (582)	697 (707)	744 (755)*
532 (540)	577 (585)	616 (625)	755 (766)	832 (843)
Tier 4 final	Tier 4 final	Tier 4 final	Tier 2	Tier 2
John Deere PowerTech™ PSX	John Deere PowerTech™ PSX	John Deere PowerTech™ PSX	Cummins QSK 19	Cummins QSK 19
6090HZ013	6090HZ013	6090HZ013	QSK 19755	QSK 19831
Optional	Optional	Optional	Optional	Standard
13.5	13.5	13.5	19	19
In-line 6	In-line 6	In-line 6	In-line 6	In-line 6
Unit injectors + 4 valves	Unit injectors + 4 valves	Unit injectors + 4 valves	Unit Injectors + 4 valves	Unit Injectors + 4 valves
Direct	Direct	Direct	Direct	Direct
Dry Clutch	Dry Clutch	Dry Clutch	Dry Clutch	Dry Clutch
1	1	1	Multi-disc	Multi-disc
Re-inforced with kevlar inserts	Re-inforced with kevlar inserts	Re-inforced with kevlar inserts	Re-inforced with kevlar inserts	Re-inforced with kevlar inserts
Active, hydraulic pressure	Active, hydraulic pressure	Active, hydraulic pressure	Active, hydraulic pressure	Active, hydraulic pressure
6	6	8	8	8
Standard	Standard	Standard	NA	NA
1650	1650	1650		
12.4 / 15.5 / 18.6 (20 / 25 / 30)	12.4 / 15.5 / 18.6 (20 / 25 / 30)	12.4 / 15.5 / 18.6 (20 / 25 / 30)		
Optional	Optional	Optional	Standard	Standard
1140-2100	1140-2100	1400-2100	1400-2100	1400-2100
12.4 / 15.5 / 24.9 (20 / 25 / 40)	12.4 / 15.5 / 24.9 (20 / 25 / 40)	12.4 / 15.5 / 24.9 (20 / 25 / 40)	12.4 / 15.5 / 24.9 (20 / 25 / 40)	12.4 / 15.5 / 24.9 (20 / 25 / 40)
Standard	Standard	Standard	Standard	Standard
Optional	Optional	Optional	Optional	Optional
4	4	4	4	4
Standard	Standard	Standard	Standard	Standard
Optional	Optional	Optional	Optional	Optional
26	26	32.7	32.7	32.7
Standard	Standard	Standard	Standard	Standard
Standard	Standard	Standard	Standard	Standard
Swing-away, 37-45 degree angle	Swing-away, 37-45 degree angle	Swing-away, 37-45 degree angle	Swing-away, 37-45 degree angle	Swing-away, 37-45 degree angle

Specifications and design subject to change without notice.

**8800 California model power output: Maximum power @ 1800rpm 800hp/812ps, maximum power @ 2100rpm 744hp/755ps*

Specifications

	8100	8200	8300
Dura-Drum™ Cutterhead			
Cutterhead housing width [in]	27	27	27
Cutterhead w/ knives: width/diameter [in]	26.7/26.3	26.7/26.3	26.7/26.3
Number of knives	40 or 48	40 or 48	40 or 48
Speed at rated engine speed [rpm]	1100	1100	1100 (1200 option)
Shear bar, reversible	Standard	Standard	Standard
Kernel Processor, 118 tooth serrated roll, Quick KP swing in/out			
Roll width, diameter [in]	25, 9.5	25, 9.5	25, 9.5
Speed differential Upper/Lower [%]	32	32	32
Roll spacing [mm]	1.0 - 5.0	1.0 - 5.0	1.0 - 5.0
KernelStar Kernel Processor, disk type, 240mm diameter			
Number of disks (top/bottom)	15/14 + 2.5	15/14 + 2.5	15/14 + 2.5
Crop Accelerator			
Rotor Diameter / Housing Width (in)	23 / 21	23 / 21	23 / 21
Number of blades	10	10	10
Speed @ rated rpm	1800	1800	1800
Accelerator band	6 mm Hardox, DuraLine HD Option	6 mm Hardox, DuraLine HD Option	6 mm Hardox, DuraLine HD Option
Spout			
Rotation	210°	210°	210°
Reach from center line [ft] (optional) [ft]	15.5 (19.2 , 22)	15.5 (19.2 , 22)	15.5 (19.2 , 22)
Hydraulic raise and lower	Standard	Standard	Standard
Automatic Spout Positioning	Option	Option	Option
Length of Cut			
40 knives [mm] (in)	7 - 26 mm (.275 - 1.0 in) 1 mm (.04) increments	7 - 26 mm (.275 - 1.0 in) 1 mm (.04) increments	7 - 26 mm (.275 - 1.0 in) 1 mm (.04) increments
48 knives [mm] (in)	6 - 22 mm (.24 - .87 in) 1 mm (.04) increments	6 - 22 mm (.24 - .87 in) 1 mm (.04) increments	6 - 22 mm (.24 - .87 in) 1 mm (.04) increments
Tank Capacities			
Fuel [gallon] (L)	290 (1100 L)	290 (1100 L)	290 (1100 L)
DEF [gallon] (L)			
Hydraulic system [gallon]	13	13	13
Large volume innoculant tank [gallon]	95	95	95
Vehicle			
Base front tires	710/70R42	710/70R42	710/70R42
Base rear tires	620/60R30	620/60R30	620/60R30
Transport length (w/o header) [ft]	21.4	21.4	21.4
Transport width (w/o header) [ft]	9.84 -11.5	9.84 -11.5	9.84 -11.5
Transport height (to cab roof) [ft]	12.75	12.75	12.75
Working height (max) [ft]	22	22	22

8400	8500	8600	8700	8800
27	27	33.7	33.7	33.7
26.7/26.3	26.7/26.3	33.5/26.3	33.5/26.3	33.5/26.3
40 or 48	40 or 48	40 or 48	40 or 48	40 or 48
1100 (1200 option)	1100 (1200 option)	1100 (1200 option)	1100 (1200 option)	1100 (1200 option)
Standard	Standard	Standard	Standard	Standard
25, 9.5	25, 9.5	28, 9.5	28, 9.5	28, 9.5
32	32	32	32	32
1.0 - 5.0	1.0 - 5.0	1.0 - 5.0	1.0 - 5.0	1.0 - 5.0
15/14 + 2.5	15/14 + 2.5	17/16 + 2.5	17/16 + 2.5	17/16 + 2.5
23 / 21	23 / 21	23 / 21	23 / 21	23 / 21
10	10	10	10	10
1800	1800	1800	1800	1800
6 mm Hardox, DuraLine HD Option	6 mm Hardox, DuraLine HD Option	6 mm Hardox, DuraLine HD Option	6 mm Hardox, DuraLine HD Option	6 mm Hardox, DuraLine HD Option
210°	210°	210°	210°	210°
15.5 (19.2 , 22)	15.5 (19.2 , 22)	15.5 (19.2 , 22)	15.5 (19.2 , 22)	15.5 (19.2 , 22)
Standard	Standard	Standard	Standard	Standard
Option	Option	Option	Option	Option
7 - 26 mm (.275 - 1.0 in) 1 mm (.04) increments	7 - 26 mm (.275 - 1.0 in) 1 mm (.04) increments	7 - 26 mm (.275 - 1.0 in) 1 mm (.04) increments	7 - 26 mm (.275 - 1.0 in) 1 mm (.04) increments	7 - 26 mm (.275 - 1.0 in) 1 mm (.04) increments
6 - 22 mm (.24 - .87 in) 1 mm (.04) increments	6 - 22 mm (.24 - .87 in) 1 mm (.04) increments	6 - 22 mm (.24 - .87 in) 1 mm (.04) increments	6 - 22 mm (.24 - .87 in) 1 mm (.04) increments	6 - 22 mm (.24 - .87 in) 1 mm (.04) increments
290 (1100 L)	290 (1100 L)	290 (1100 L)	396 (1500 L)	396 (1500 L)
		11.4 (43)		
13	13	13	13	13
95	95	95	95	95
710/70R42	710/70R42	710/70R42	710/70R42	710/70R42
620/60R30	620/60R30	620/60R30	620/60R30	620/60R30
21.7	21.7	21.7	21.7	21.7
9.84 -11.5	9.84 -12.1	9.84 -12.1	9.84 -12.1	9.84 -12.1
12.75	12.75	12.75	12.75	12.75
22	22	22	22	22

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