

S-Series Combines

S650, S660, S670, S680, S690



What can green do for you?

When you step into a John Deere Combine, it's always ready to perform. It performs strong throughout the entire harvest season. It works smart, from the functionalities in the cab, to the innovations at its core. It offers you total combine capacity that's unparalleled and, yes, without complexity. The real benefit though, you get all of these features in one machine. Because that familiar coat of green paint demands that you get the whole package. **Ready. Strong. Smart. Able to keep your capacity up and your complexity down.** That's what green can do for you.

How do we do it? Through our legacy of passion, pride and productivity, which helped us launch great features like the Pro-Drive™ transmission with HarvestSmart™, the TriStream™ and Variable Stream rotors, Active Concave Isolation, Platform Tilt, and so much more.

Today our evolution continues. We're introducing a new set of advancements to heighten performance even further. New header improvements for both corn heads and draper platforms. A new, more refined cleaning system. New mobile technology. And additional new features to help you progress in your operation. Because it's not just what green can do for you, **it's what green will do for you.**





CONTENTS

S-Series Combines 4-5
 Cab and Controls6-10
 600C CornHeads / 612FC / StalkMaster™ 11-13
 600FD HydraFlex Drapers 14-15
 600D Draper 16-17
 600F / 615P Platforms 18-19
 Feederhouse / Lateral Tilt20
 TriStream Rotor21
 Small Grains Packages22
 Variable Stream Rotor23
 Cleaning Systems 24-25
 Active Tailings System 26-27
 Grain Handling 28-29
 Residue Management30-31
 Engines32-33
 ProDrive / Drives 34-35
 Technology 36-37
 T670 Small Grain Combine38
 Service / Support / Attachments 39-41
 Specifications / Tracks and Tires42-43

Visit www.JohnDeere.com/Combines for more details, or use the online product configurator to build and price an S-Series Combine.

More quality, from front to back



High-quality grain starts up front, with getting the crop into the machine. Fitting then that the 2016 John Deere S-Series makeover starts with our new and improved front-end equipment. The new 612FC Folding Corn Head perfectly marries speed and simplicity to give you superior performance in or out of the field. And the new HydraFlex™ Drapers feature four new enhancements across the entire line that further demonstrate our commitment to the highest level of productivity. But we didn't stop at heads and platforms. Work your way back and you'll find the new Dyna-Flo™ Plus Cleaning Shoe. Our newly designed shoe raises overall efficiency ... so what it reduces in tailings volume, it gives back in higher combine capacity, as well as generous time savings. Then there's the new Active Terrain Adjustment™, which helps minimize grain loss when harvesting over rolling terrain. From the head of the machine to the rear, the 2016 S-Series a total upgrade over the field.

JDLink™ Connect-enabled features:

- Remote Display Access
- Wireless Data Transfer
- Machine Sync
- NEW Harvest Mobile

See pages 8 and 37

400-bushel grain tank

- 400-bushel (14,100 L) capacity
- Higher harvesting efficiency

See pages 28-29

Premium cab

- Leather cab option with heated, ventilated, lumbar-supported seat
- Relaxing space and comfort
- Easy-to-use harvesting controls
- Advanced technology including, Interactive Combine Adjustment

See pages 6-9

AutoTrac™ RowSense™

- Maintain efficiency through changing conditions
- Reduce grain loss
- Improve performance

See pages 36-37

Feederhouse

- Platform Tilt option
- 4-chain feederhouse with cast iron slats
- Single-level multi-coupler
- Multiple drive options

See page 20

Header lineup

- Full range for all crops and conditions
- Corn heads, drapers, belt pick-up
- Matched capacity
- Stable performance

See pages 11-19

Transmission options

- Exclusive ProDrive automatic transmission
- PBST push-button shift transmission
- Mechanical-shift transmission
- Engine Speed Management system

See page 34





FT4 PowerTech™ PSS engine

- DEF consumption rate of 2%
- Cooled exhaust gas recirculation (EGR)
- Selective catalytic reduction (SCR)

See pages 32-33

Active Tailings system

- Higher total machine capacity
- Cleaner grain sample

See page 26

Advanced threshing concept:

- The TriStream and Variable Stream Rotor
- Higher separator capacity
- Improved material handling
- 8-wing feed accelerator (Variable Stream Rotor only)

See pages 21-23

Tough Small Grain Package

- Exclusive Active Concave Isolation
- Increased throughput

See page 22

NEW Dyna-Flo Plus Cleaning System

- Six additional louvers on sieve (12% more surface area)
- 28 percent reduction in tailings volume
- 1.5 hours of added combine capacity

See page 24

NEW Active Terrain Adjustment

- Automatically adjusts cleaning shoe settings over rolling terrain
- Maintains machine ground speed
- Minimizes grain loss and provides a cleaner grain tank

See page 25

High-speed unloading

- 3.8-bushel/sec (135-L/sec) unload rate, fills cart in seconds
- Enclosed gearcase for quick and quiet engagement
- 26- and 28.5-foot augers available for easy unloading

See pages 28-29

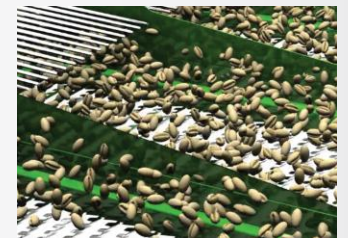
Take a tour

JohnDeere.com/Combines

JohnDeere.ca/Combines

Looking for a backstage pass to meet the newest S-Series Combines?

We have your ticket to the show. Visit the Combines page at the John Deere website and you can take a virtual tour through the machine. This is more than a website. This is an online experience with everything but a factory representative on-hand to guide you. Learn about every nook and cranny, from the cab, to the crop processing system, to the engines and drives. Complete with simulated rotations, animated cutaways, exclusive videos, and in-depth feature descriptions, the S-Series tour showcases the combine in ways you've never seen. Even better, with an easy, comfortable scrolling set-up, you can move through the journey in little time, so you don't have to labor while you learn. Come explore the S-Series Combines today. No need to make reservations.



A cab fit for a king

It's not quite a castle, but a John Deere premium cab will make you feel like modern-day royalty. Just imagine sitting in the coziness and comfort of a spacious operator station with all the creature features and amenities you need to keep you productive and upbeat. But what throne would be complete without superior upholstery? Enter the leather package option, equipped with leather steering wheel, lumbar-supported operator seat that's heated and ventilated, and leather instructor seat. Easy-to-use controls, like our convenient 'soft-touch' switches let you fine-tune machine performance. And to round it out, the premium cab offers a full 180-degree view to look out on your kingdom. It's good to be the king.





Premium sound. Let's say you want to listen to some music and stay connected. The premium package provides full MP3 support and BlueTooth® functionality. Advanced features like Push-to-Talk and a fully synchronized phone book keep you in touch.



High standards. Not interested in the leather cab package? No problem. The standard comfort zone cab is still one of the highest in the industry. The air suspension premium seat adjusts four ways to fit you perfectly. Lumbar adjustment gives you just the right amount of back support. There's even an optional heated cushion.



More storage. Harvest time means long days in the field, which means you're working and eating on-the-go. Luckily the S-Series cab is big on space and storage. Better still, the integrated refrigerator keeps your refreshments cold all day.

Tech savvy

This may not look like a business center, but it is. In fact, we loaded it with so many advanced features, you can run your entire operation from this one seat. So what does this smart hub offer? The better question is, what doesn't it?

Interactive Combine Adjustment (ICA)

With Interactive Combine Adjustment, basic drivers can work the machine like a pro. ICA simplifies the combine controls for the operator so your harvest not only stays efficient, but production actually increases by up to two acres a day.

JDLink™ Connect

JDLink™ Connect is your ticket to improved efficiency, uptime, and profitability. It includes features like Remote Display Access that enable a farm manager or dealer to remotely review the GreenStar 3 display settings. There's also ServiceADVISOR™ Remote that gives you the confidence you need each time you step into your combine. And Wireless Data Transfer allows for easy movement of your harvest data straight to your MyJohnDeere.com account.

TouchSet™

With 25 factory crop settings available and the ability to store nine additional, TouchSet automatic combine adjustment is about as versatile as it gets. Customize each setting to adjust rotor rpm, concave opening, fan speed, main chaffer, and more.

*Activation/subscription required. Some additional accessories and/or components may be required. JDLink requires a cellular data connection to transfer information from machine to JDLink website. Consult your local John Deere Dealer for coverage availability.



Harvest Smart™

Operator stress? No such thing when you use the Harvest Smart feedrate control system. Adaptive, on-the-go functionality enables automatic ground speed control during harvest operation to maximize combine productivity.

AutoTrac™

Harvest accurately, efficiently, and hands-free through the innovative AutoTrac system, whether you're working in corn, beans, wheat, rice, canola, or any other crop.

ServiceADVISOR™ Remote

Don't let diagnostic issues get you down. ServiceADVISOR Remote allows your dealer to monitor your machine's health while in-use for faster, simple troubleshooting, potentially saving a service call.

John Deere Machine Sync

Machine Sync includes Combine Harvest Automation, Harvest Logistics, Coverage Map Sharing, and Guidance Line Sharing to further jump productivity (see page 36).

Take command



With CommandArm™, a CommandCenter Display, and a digital cornerpost display, the S-Series gives you control over all operations with less effort.

CommandArm console:

The CommandArm console makes it easy and convenient to stay productive. Controls are user friendly and fast to locate.

- Hot keys for common harvesting adjustments, transmission
- Air conditioning controls
- Radio controls
- Light controls

Multi-function control handle:

Fits your hand perfectly to give you smooth hydrostatic speed control. It also controls unloading operations, AutoTrac resume, and header functions.

Display options

See what you need to see, and more

**Digital Cornerpost display**

The well-appointed displays are easy to read and give you complete information on your combine's performance. At-a-glance, get a quick overview of forward speed, engine rpm, and alerts. The new power meter shows you the amount of power used.

**GreenStar™ 3 CommandCenter Display**

puts vital machine and crop information within reach, making it easy for you to make quick adjustments. Supports GreenStar applications such as AutoTrac™ and AutoTrac™ RowSense™ from one panel.

**GreenStar™ 3 2630 Display**

You can upgrade the GreenStar 3 CommandCenter for a larger 2630 Display. Run all your Ag Management Solutions including documentation and guidance. It also supports video functionality. (Up to three cameras can be wired into the system)

Harvest Mobile

Efficiency in the palm of your hands

You want to get more out of your operation without over complicating it. We have the solution. Introducing Harvest Mobile, a new simpler way to manage some of your key harvesting functions.

Harvest Mobile is the latest in the way of in-cab innovation. It works directly from your iPad to deliver in-depth info on field performance by visualizing mapping layers such as ground speed, wet yield, dry yield, and average moisture. You can see exactly what's going on in the field. Harvest Mobile also displays machine settings at a glance, like rotor speed, fan speed, and more.

But perhaps the most impressive thing Harvest Mobile allows you to do is view and adjust our industry-exclusive Interactive Combine Adjustment directly from the tablet. With ICA, machine controls are simplified, helping the operator go from novice to know-it-all in far less time.

*Harvest Mobile is only compatible with an FT4 S-Series Combine.



Time to 'Go'

Get next level optimization with our GoHarvest app

Grab your smart phone and download the app that's taking farmers by storm. The **GoHarvest™** application gives S-Series Combine operators the ability to optimize their 2012 or newer machine as they enter the harvest season. Just choose your S-Series model and crop type, and GoHarvest will suggest for you initial settings for that specific crop type. It also features a notes section, photo functionality, and rich content videos to give you a premium experience when optimizing your machine. GoHarvest is also a great guide to use in field for settings changes as conditions differ, and to document changes made to settings during harvest.



New 612FC Folding Corn Head

Fold and go ... it's that simple



Corn growers, rejoice. The new 612FC Folding Corn Head is available for your John Deere S-Series Combine. And to do you one better, we've designed it for both our regular unit and our StalkMaster system, for those who prefer to cut stalks on the move.

Regardless of which system you go with, the 612FC will improve your harvest readiness. What does that mean? It means it's 'ready' to raise your acres harvested by 30 acres per day (*compared to a traditional 8-row corn head*), while reducing your overall operating costs by up to 15% – fuel and labor come to mind. Also, it's 'ready' to fold at a moment's notice, which increases your harvest performance by six acres per day (*compared to a traditional 12-row corn head*).

Besides the uptime and productivity, there's the ease of use and convenience. With the 612FC you can fold the header without ever leaving the cab. This lets you move from field to field more quickly and easily. And while it folds for performance, it won't fold under pressure. Feel confident knowing it can handle rough conditions, including high-yielding corn, robust hybrids, or tough green stalks. The 612FC also helps you decrease your operating costs by 15%.



Beat the clock with the 600C Corn Heads

606C – 618C deliver a more productive harvest

We knew we couldn't come to the market with the most powerful combine and not deliver front-end equipment that could keep up with it. That's why we tag-teamed the S-Series with a full lineup of corn heads from 6 rows to 18 rows to meet a wide range of customer preferences. Built ready, these corn heads offer more rows, and perform exceptionally well at higher harvesting speeds, which means you can get done a whole lot sooner.

Excels in every condition

More acres, higher yields, and hybrids with tougher stalks are real challenges at harvest. That's why the 600C components are robust enough to chop through the toughest, thickest crop with ease.

Smooth handling and less loss. High-performance gathering chains, stalk rolls, auger, feederhouse, and trough promote smooth crop flow and help to make sure every kernel makes it inside the combine. The results: fewer tossed ears, less ear shelling, and less trash fed through the combine.



Higher capacity feeding. The optional CommandTouch Multi-Speed feederhouse drive provides higher capacity feeding in the heaviest yielding corn. The reliable PowerShift transmission delivers up to 42% more torque capacity that enables you to operate the corn head in five speed ranges. Push one button and you can control the speed from the cab.



Tapered shaft and locking retention nut improve retention and ensure optimal material transport. Stalks are drawn through with a gentle touch and then finely and consistently chopped by the StalkMaster chopper. The 600 Series Corn Heads can also be tailored with stalk rolls designed to match your harvesting needs.

Straight fluted. Crimping action leaves the stalk mostly intact.

Opposing Knife. Standard with StalkMaster to maximize stalk processing.

Intermeshing Knife. Medium stalk processing uses less power.



A heavy-duty slip clutch design protects both the row unit gearcase and the StalkMaster lower chopping unit gearcase. If the clutch slips, the operator will know immediately.



Lift-assist row unit deck shields make it easy to access the maintenance points. Finish quickly so you can resume harvesting.



600C StalkMaster™ Chopping Corn Heads

The StalkMaster Corn Head Chopping System lets you size and chop corn stalks while harvesting, eliminating second-pass operations and saving time, fuel, labor, and additional tractor operating costs. StalkMaster is available on the 606C, 608C, 616C and the 618C Corn Heads.



Easy disconnect. The gearcase on the StalkMaster row units now features a chopping disconnect. Each row unit has a convenient shifting lever on the right side of the gearcase to turn the function on or off.

High-performance HydraFlex™ Drapers

How can you make sure you don't leave profit in the field? Get to know the true full-width flexible cutterbar – the 630FD, 635FD, 640FD, and 645FD HydraFlex Drapers. Covering a variety of platform sizes, the 30-ft, 35-ft, 40-ft, and 45-ft models flex 7.5 inches across the full width of the cutterbar allowing the draper to hug the ground, reaching more beans with every pass. Better still, the exclusive HydraFlex flotation system allows you to change the amount of weight of the cutterbar riding on the ground to match soft or hard soil conditions while you cut. As an added benefit, the 630FD gives you even greater performance in rice, helping you maximize crop yield. And the 645FD provides greater width for knocking big jobs down to size.



16-Inch High-Capacity Feed Drum. A large feed drum with tapered ends and gathering fingers delivers the crop from the center feed belt into the feederhouse for smooth, uninterrupted crop flow. Engage the feederhouse reverse switch on the armrest and you can easily reverse the reel, feed drum, and center feed belt from the comfort of your cab.



Keep an eye on what matters. We designed the new 600FD Drapers with swept back rear panels that give you an unobstructed view across the full width of the head. You can see the crop as it's cut, laid head first on the side draper belts, delivered to the center belt, and fed smoothly into the combine.





A family that sticks together

645FD features have now been added to the entire HydraFlex Draper lineup

The enhancements we built into last year's 645FD were so well-received by customers, we decided to extend it across the whole line. For starters, we have a wider feed section. The added width allows you to get more crop into the feederhouse and, thanks to a faster center-belt drive-speed, it can handle the higher volumes of crop with no problems. Shorter end dividers were added to help reduce grain loss and crop knock down. And stronger reel fingers are in place to better handle harsh crop conditions, such as down crop. Last, but certainly not least, the improved wear life on the reel finger support tube bearings keep your flex draper out of the shop and keep you working in the field where you belong.



Draper Belt Protection System. Integrated into the HydraFlex draper platform, this system minimizes side belt damage should slippage occur. How does it work? Speed sensors monitor the speed of the idler rollers and if any major slippage happens, the belts shut off and a warning is displayed on the CommandCenter™ Display.



Reel Options. We equipped the 640FD and 645FD with two reels. The two-piece reel features a five-cylinder lift system that provides a consistently level reel height across the full width of the cutterbar. This allows even feeding of the crop unto the draper belts.

Side belt. Side belt speed reduction lets the operator slow down the side draper belts to a fixed speed with a push of a button. This feature is designed to improve draper performance when the operator is not harvesting the full platform width or when coming out of headlands.

Platform for success

Perfect harvesting conditions rarely occur. That's why so many growers choose the 600D Draper Platform from John Deere. The entire line works fast, even in tough wet conditions.

Designed to perform. The dual-knife drive system, with a built-in drive line protection system, provides years of trouble-free operation. Perma-Glide divider points are designed to minimize outer divider plugging. Performance features also include taller belt cleats, wider belts, and a larger, 16-inch feed drum. You can even add an optional auxiliary top auger to keep bushy crops moving into the feederhouse. With a complete draper line that includes sizes from 25 feet to 40 feet, you'll have the widest selection of draper heads for the widest range of crops and conditions.



- 1. Cutterbar Tilt.** A center-mounted hydraulic cylinder lets you tilt the cutterbar from the convenience of the cab using the advanced HydroHandle. You get the optimum cutting angle and the lowest possible cutting height.
- 2. 16-inch feed drum.** Four inches larger than previous models, this drum is sized to provide better feeding in high-volume and high-yielding crops.
- 3. Timed Dual-Knife Drive System.** You'll appreciate the smooth, vibration-free cutting performance you get from the shaft-driven in-line dual-knife drive system. Standard on the 630D, 635D and 640D.



HydraFloat™ suspension system. No more cutterbar bulldozing in soft soil! This hydraulic height-sensing system lets you increase the hydraulic pressure so the cutterbar will float over the ground. Adjustments are made in the cab. Because there's no manual float spring tension to adjust, no stopping is required. With the low, 1.5-inch cut height, this system is a winner in down, tangled crop.

For rice harvesting. If you're using the 625D in rice, opt for the large, 25-foot steel tine reel. It has a 54-inch diameter with eight bats to ensure excellent crop contact for optimized cutting and feeding.

Integrated road transport. Equip your 630D, 635D or 640D with this optional transport system for absolute convenience. Converting from field to transport mode takes only minutes and requires no tools.

One-inch draper belt cleats. 1-inch tall belt cleats move heavy, down, or damp crop efficiently. In addition, the belt speed is now 20-percent faster for more consistent, even feeding.

New reel fingers have been upgraded for greater uptime. More durable, more robust, the new reel fingers have been strengthened by 30% to resist deflection, but still be sturdy enough to be last long.

Reel resume and reverse. With reel resume, you can store three reel positions so you'll always match field conditions. And for the occasion that your draper gets too big a bite, a single button lets you reverse the reel, center feed drum, and center belt to remove material without stepping out of the cab.

Bring-it-on capacity!

What's in front of your combine has just as much effect on productivity as what's inside your combine. So we designed the 600 Series HydraFlex™ Platforms to match the high capacity of the S-Series Combines and equipped them with a range of performance-boosting features, including:

Single-point hookup. All John Deere headers and platforms feature single-point hookup of electrical and hydraulic connections, as well as latchpin engagement.

Double-cut knives with heavy-duty drive. Four-inch double-cut knives give you cutting capacity and harvesting speed, while the epicyclic drive offers reliable, smooth performance.

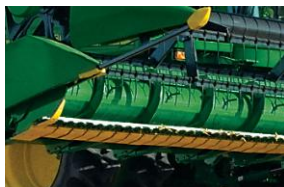
HydraFlex technology. With HydraFlex, you can control how much of the cutterbar's weight is on the ground without affecting the ultra low cutting height of this header. Custom cutters can dial up the pressure to maximum, locking the cutterbar into the rigid position, thus giving you one platform you can use for wheat and beans.

Exclusive HydraFlex Platforms give you unmatched flexibility to run faster and cut cleaner over uneven ground. Float arms with hydraulic cylinders give you six inches of float, even when changing pressure to match harvest conditions. In-cab controls let you make adjustments, or run on "automatic." For rigid operation, simply use the maximum pressure, or use mechanical lock-out brackets.

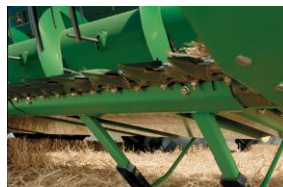


The 26-inch diameter auger, with its 5-inch flighting, takes in a thick crop mat. Plus, long, retractable fingers running in-line the full width of the auger aggressively grab crop material once it's cut. Result: smooth, high-volume crop feeding – even at faster ground speeds.

The stone dam (Flex only) helps deflect rocks, minimizing damage, while helping hold material on the platform. Stainless steel deck plates provide a smooth transition between the cutterbar and auger. A short stone dam is standard on all HydraFlex platforms; a tall stone dam is available for rocky, uneven fields and no-till soybeans.



Segmented skid shoes (standard on HydraFlex platforms) provide more flexibility for ground-hugging harvests so you can reduce field losses in down or tangled crops.



Header height sensing (HHS) helps maintain consistent off-ground cut height in uneven ground. HHS is standard on HydraFlex platforms, optional on rigid platforms.



The heavy-duty epicyclic knife drive increases drive capacity and improves reliability. The straight-line oscillation makes the drive run smooth.



Smooth performance in windrows

No matter how rough the field or how thick the windrows, the 615P Belt Pick-Up gives you smooth, complete gathering of windrowed grain, thanks to a variety of exclusive features and innovations.

Start with the belts themselves. Four, 44.5-inch rubber belts provide improved performance over designs using more belts – you’ll see tighter tracking, plus reduced seed loss. Connectors between the belts increase drive capacity, even in tough conditions, without the need for a center support on the drive rollers. Belts are driven by dual hydraulic motors, not a mechanical/hydraulic combination, for fewer moving parts and increased reliability.

Dual-belt draper pickup.

Increased belt pickup lengths deliver smoother material flow into the auger. And the added transfer belt moves crop under the auger for more controlled material handling in large, dense windrows.

Hydraulic adjustable windscreen.

Maximize productivity ... maintain crop. The windscreens allow you to adapt on the fly – all from the seat of your cab – to control crop flow into the pickup during changing windrow conditions.



The exclusive **FieldGlide™** suspension features an adjustable air spring and heavy duty hydraulic shock design to dampen movement during field operation and transport, allowing you to increase harvesting speed without bouncing the platform over windrowed crop. No tools required – simply set the air springs quickly and easily. Once set, the air springs don’t need adjustment during the season.

The 615P Belt Pickup has a new feature that will delight canola producers. A new slug removal software improves the process used to take out slugs. By delaying the belt engagement after reversing the feederhouse, we’ve made harvesting even easier in challenging conditions.

Appetite for more!

The **S-Series Combines** have a unique feederhouse design that gives you more than enough capacity to take full advantage of the extra productivity you get with these machines, and lets you handle the increased width and weight of the larger heads with ease and confidence.

The **feederhouse** on the S-Series provides large areas of clearance for high volumes of crop to flow uninterrupted, without hesitation. It's all about matched capacity.

Speaking of crop flow, you can expect better engagement of crop, earlier, plus a smooth transition from corn head or platform to the feederhouse chain. The 5-speed feederhouse drives deliver high-torque slip clutch and 135-hp reverser, for more matched capacity.



What's an hour worth to you?

Better yet, what's several hours worth? Over the course of an entire harvest, an hour a day can really add up. With the convenient **platform tilt option** you can lengthen your harvest day by as much as an hour, and cut off significant time on the back end of the season.

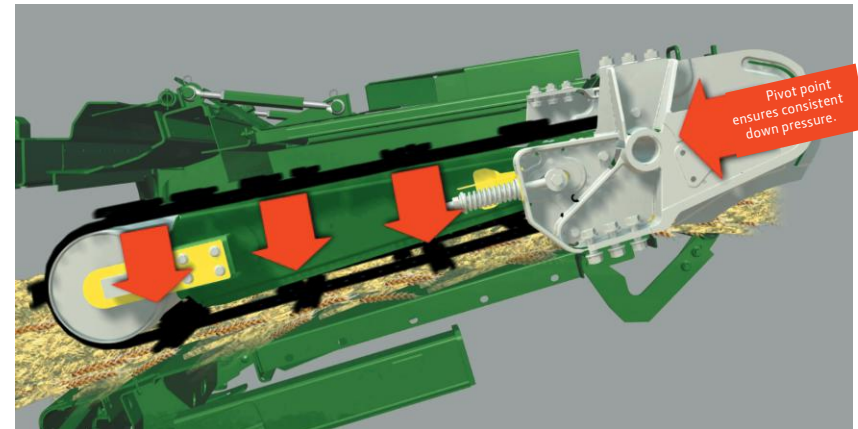
All it takes are a few simple and fast fore-aft adjustments – all managed from the operation station – to ensure your cutterbar is in the right position when tackling tough terrain. With the new optional platform tilt, you can get more done in a day and have fewer days in your harvest. Now doesn't that sound worth it?



Lateral tilt feederhouse – Take Control of Header Tilt

Harvest more grain at faster speeds – in any terrain. The lateral tilt feederhouse is a self-leveling system that allows the feederhouse and header to tilt 4 degrees side-to-side, hugging the hills. Sensors on all platforms and corn heads detect changes in the terrain and signal the lateral tilt controller. Tilt response is instantaneous.

The benefit? More consistency without bulldozing or gouging. And because you can harvest faster on sloping terrain, you stay productive.



- **High-capacity feederhouse.** Provides a productivity boost for your John Deere S-Series Combine.
- **5-Speed Feederhouse Drive.** The durable high-torque slip clutch ensures peak performance and a long life cycle.
- **Better visibility.** The long feederhouse design gives you a full view of the header and the height-of-cut without having to lean forward. You can also see the stubble height behind the header.
- **Feederhouse reverser.** The robust reverser makes light work of stubborn plugs.
- **Single-lever multi-coupler.** Hooking up headers doesn't get much easier than this.
- **Easy adjustments.** The front plate can be adjusted fore and aft to compensate for different tire sizes, crops, and conditions, ensuring easy transition from the header every time.

Smooth operation - TriStream™ Rotor

The best of both worlds...high capacity and gentle threshing. That's why the TriStream stands out to corn, soybean and small grain growers.

The TriStream rotor features a slightly tapered front nose, which dramatically reduces the 'growing' that often comes with thick crops and heavy rotor, loads. The spiral vanes surrounding the rotor, guide the crop material through the feeding and threshing area, reducing hesitation and improving productivity.

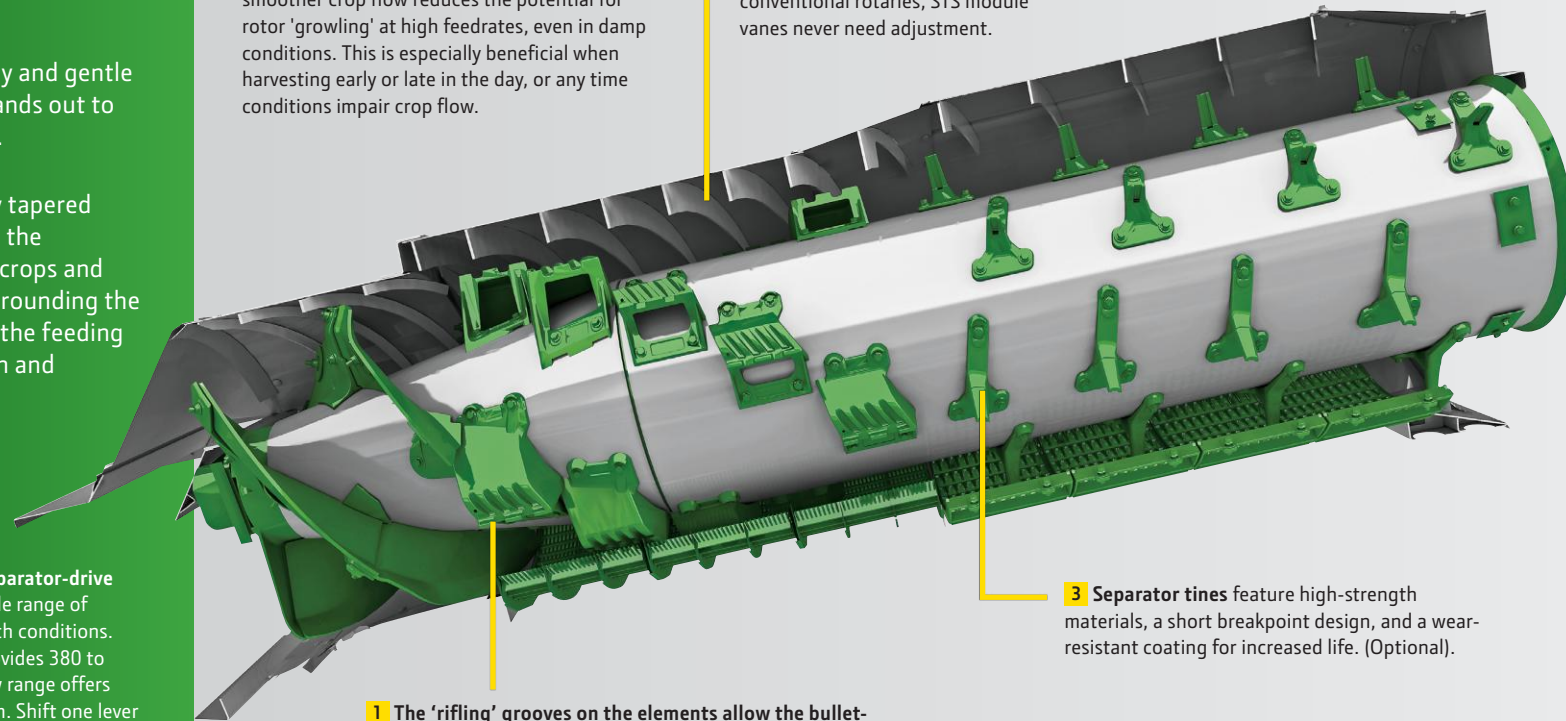


Dual-range separator-drive gives you a wide range of speeds to match conditions. High range provides 380 to 1,000 rpm; low range offers 210 to 550 rpm. Shift one lever to change ranges.



Now you can harvest close to the ground without worry thanks to a true stone trap. It helps catch rocks before they reach the threshing module. Flip one lever for fast and easy cleanout.

TriStream Rotor Technology reduces the force required to move material through the combine by as much as 20 percent. This easier, smoother crop flow reduces the potential for rotor 'growing' at high feedrates, even in damp conditions. This is especially beneficial when harvesting early or late in the day, or any time conditions impair crop flow.



2 Heavy-duty vanes on the top cover of the STS module help propel the crop rearward through the threshing and separating system. Unlike conventional rotaries, STS module vanes never need adjustment.

1 The 'rifling' grooves on the elements allow the bullet-shaped rotor to move large volumes of crop material through the rotor more efficiently, the same way rifling in the barrel of a gun allows a bullet to move more efficiently. Rifled elements 'grip' crop material, providing a pulling action to help even the crop flow, allowing the rotor to deliver better threshing performance.

3 Separator tines feature high-strength materials, a short breakpoint design, and a wear-resistant coating for increased life. (Optional).

Extended-wear separating package includes factory-installed extended-wear concaves, extended-wear threshing elements and separator tines, and extended-wear rotor top covers.



The John Deere S-Series module features a conical design. This gives the crop mat room to expand as it travels through the separator module, reducing the chances for roping – and lowering power requirements. The pull-and-release action frees trapped grain in the crop mat, boosting grain savings significantly.

Move over envelope. We've completely pushed the package.

Tough small grains and rice packages



Merely pushing the envelope wasn't good enough, because truly tough conditions demand more than simple solutions. Rather than slightly heighten performance in rice, canola, wheat, barley, oats or other tough small grains, we developed packages where your productivity will soar beyond current limitations. So how would you like to raise throughput by up to 20 percent?

Here's how: our tough-threshing crop packages are designed with four crucial components – (1) Active Concave Isolation, (2) high-performance feederhouse, (3) heavy-duty separator grates with two rows of interrupter bars, and (4) 8-wing feed accelerator. Now, imagine a storm is on the radar and you don't have much time to spare. Well, thanks to this new package, you can go full throttle and still put your tough crop into the machine without any hiccups. Moreover, with the tough small grains package, you get up to 10% more combine capacity in small grains, while maintaining your loss level.

Let's explore how each aspect of the small grains and rice packages function...

1 High-performance feederhouse

With the tough small grains package, the front feed drum provides you with two inches of additional movement for greater flexibility when dealing with challenging crop.

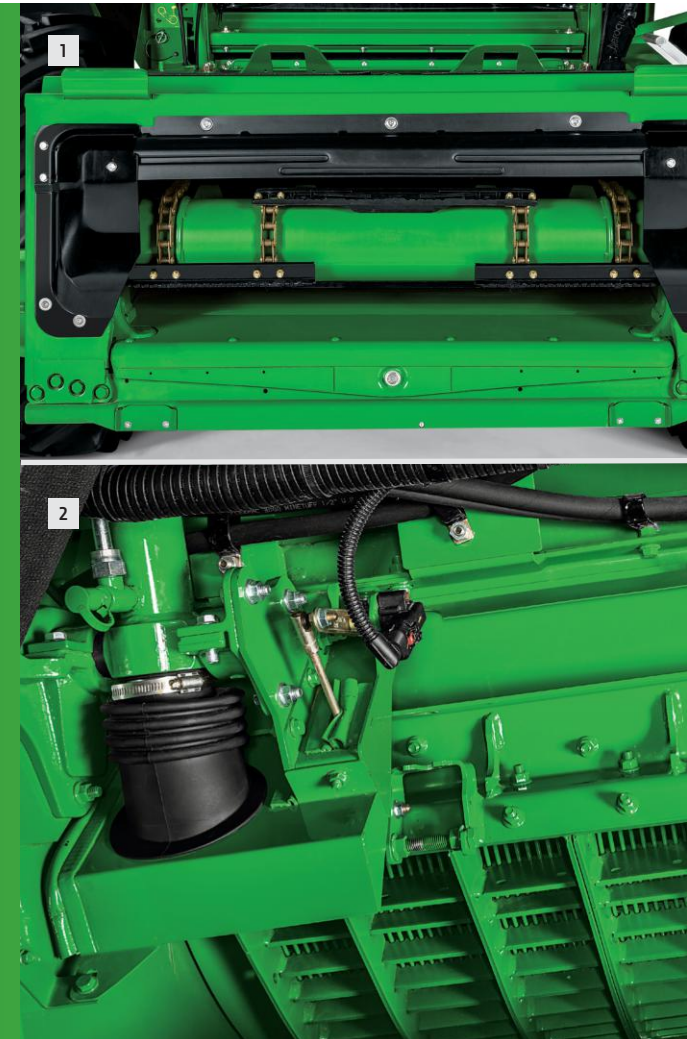
2 Active Concave Isolation

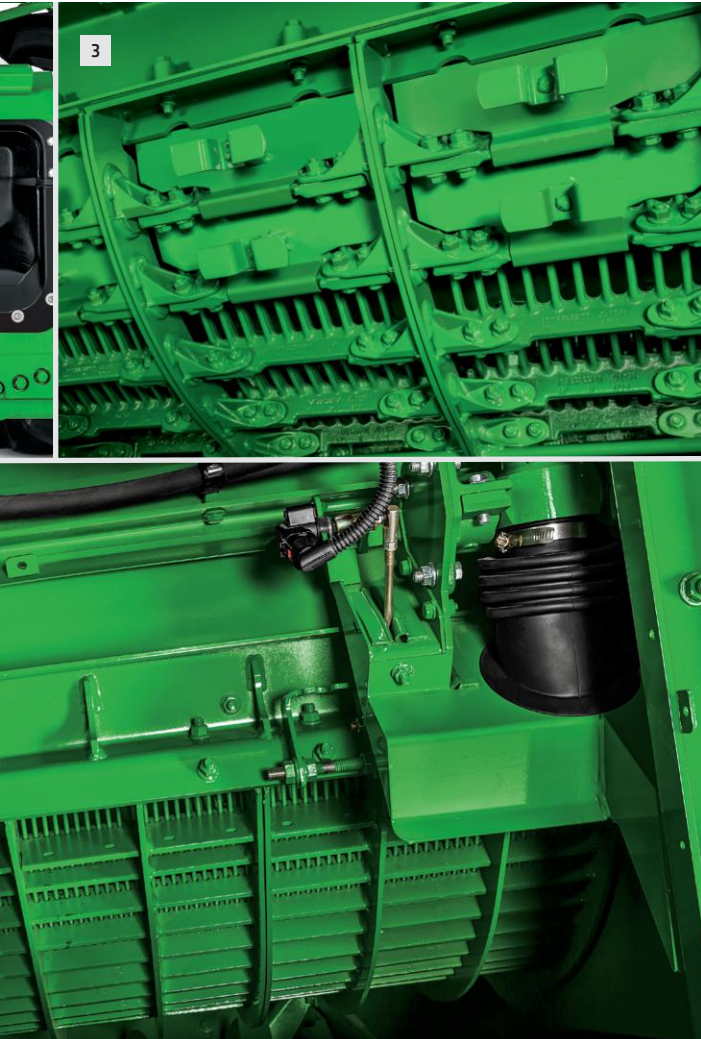
In the past, concaves have all been mechanically suspended. Not any longer. Active Concave Isolation now applies hydraulic pressure to better secure the concave. This helps provide the extra stability when harvesting really tough crops.

3 Heavy-duty separator grates (with interrupter bars)

Heavy-duty separator grates offer higher wear life and greater uptime for challenging conditions. And the dual-row interrupter bars help break up crop mat for superior separation.

**8-wing feed accelerator is featured on page 23*

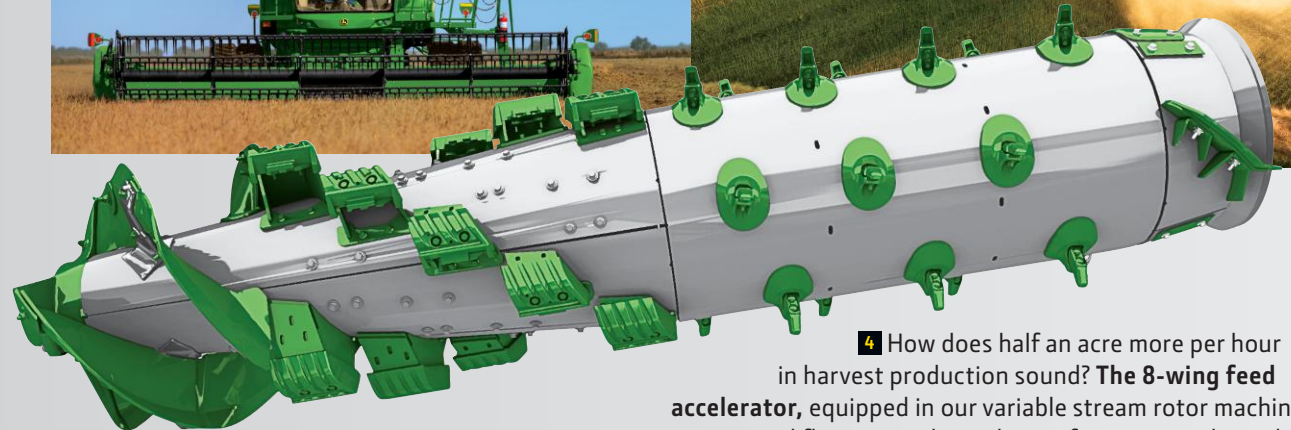




Variable Stream Rotor

Building on the proven performance of our TriStream rotor, we've added another opportunity for our small grain and rice operators - the Variable Stream rotor. It too delivers high capacity and smooth performance.

The longer, more tapered front cone design make this rotor well-suited for rice, where conditions are damp, wet, or extremely green. The rotor is also recommended for small grains where straw is tough. The rotor is also recommended for small grains and rice where the material is tough. The vane angle can be adjusted to reduce the stress on straw material as it flows around the rotor, increasing the quality of the straw.



4 How does half an acre more per hour in harvest production sound? **The 8-wing feed accelerator**, equipped in our variable stream rotor machines, improves material flow in tough conditions for superior throughput.

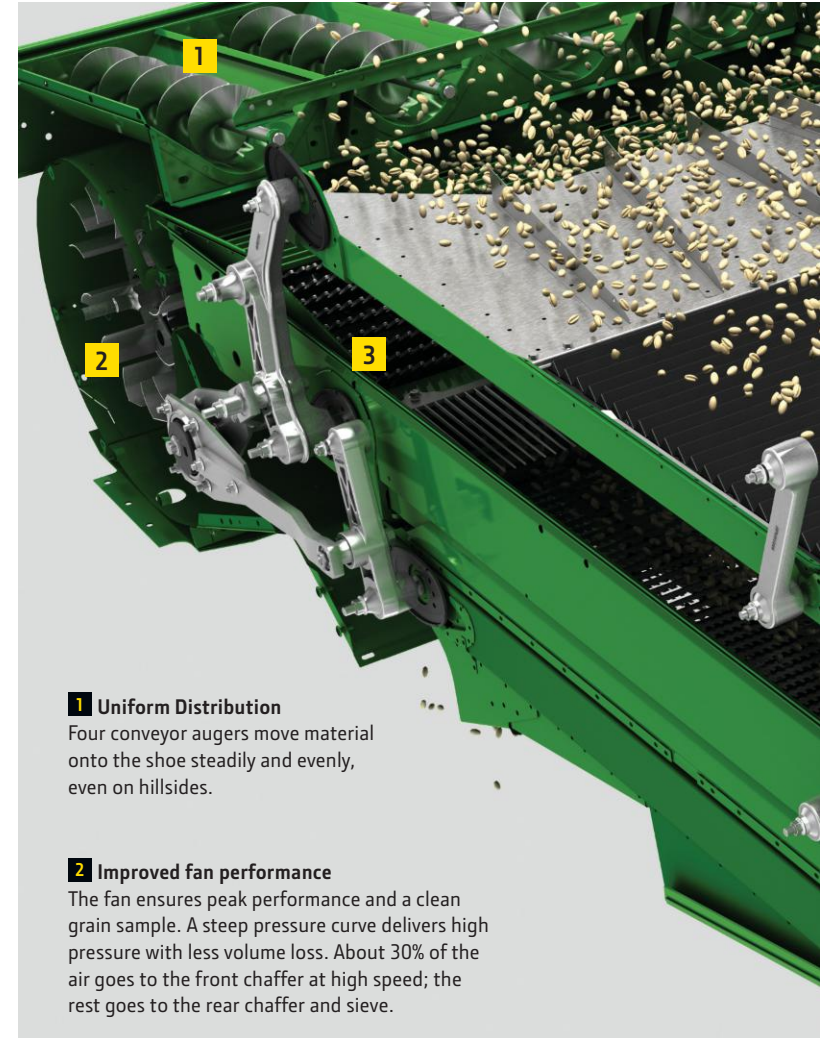
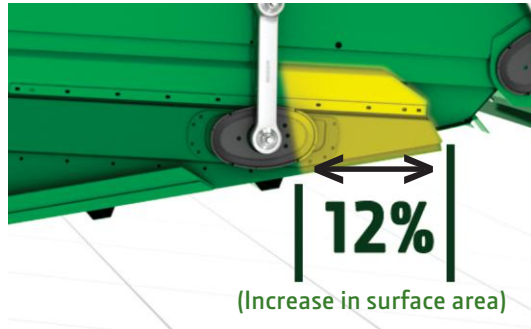
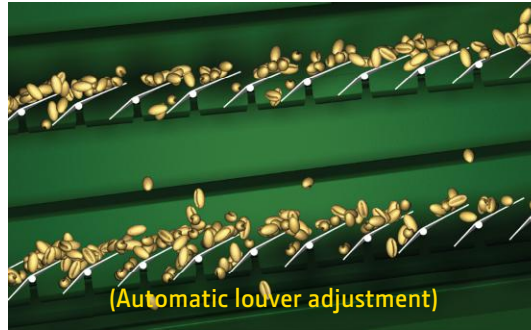
All-New Dyna-Flo Plus Cleaning Shoe

Meet your capacity needs

You want no-nonsense cleaning capacity? Here it is. The new Dyna-Flo Plus Cleaning Shoe. Lighter in weight and longer in sieve (12% increase in surface area), the Dyna-Flo Plus jumps capacity like you wouldn't believe.

In shoe-limited conditions, capacity is raised 10% in corn and 13% in wheat and canola. Also, thanks to the additional capacity, you get 1.5 acres per hour of added time. Use it for your fall tillage. Or perhaps harvest more acres in another field. Regardless what you do with the newfound time, just remember to thank the extra capacity of the Dyna-Flo Plus.

While you're at it, let's give thanks for the reduction in tailings volume. That's right. The Dyna-Flo Plus knocks down your tailings by as much as 28% to raise your overall speed and productivity. Simply put, this is a cleaning system that does it all.



1 Uniform Distribution

Four conveyor augers move material onto the shoe steadily and evenly, even on hillsides.

2 Improved fan performance

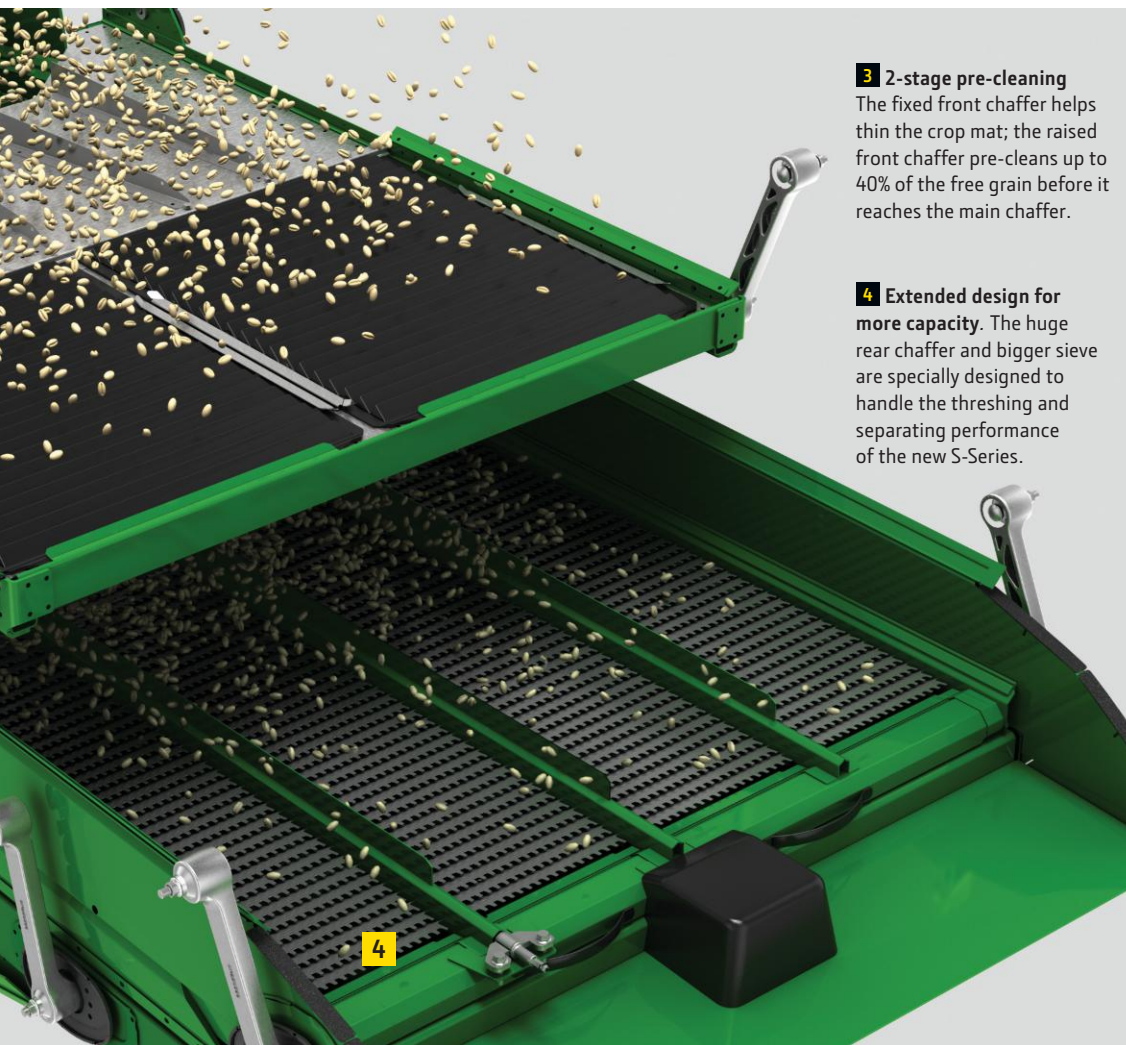
The fan ensures peak performance and a clean grain sample. A steep pressure curve delivers high pressure with less volume loss. About 30% of the air goes to the front chaffer at high speed; the rest goes to the rear chaffer and sieve.



The new shoe drive features an improved belt that offers double the cross-section of our previous belt and provides twice the tensile strength to tackle the toughest harvesting conditions. For even greater durability and uptime, the bearings, pulleys, and supports have all been upgraded, as well.



The dual adjust chaffer adjustment is an added feature offering improved grain tank cleanliness and greater tailing performance.



3 2-stage pre-cleaning
The fixed front chaffer helps thin the crop mat; the raised front chaffer pre-cleans up to 40% of the free grain before it reaches the main chaffer.

4 Extended design for more capacity. The huge rear chaffer and bigger sieve are specially designed to handle the threshing and separating performance of the new S-Series.

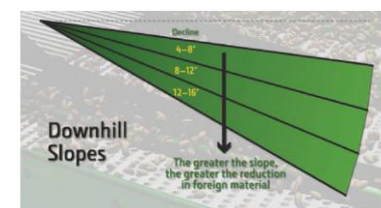
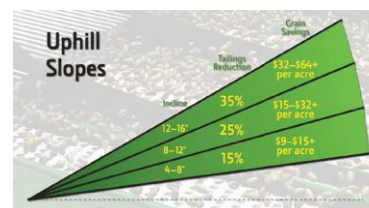
All-New Active Terrain Adjustment

Adjust to your environment

When innovation and efficiency meet, this is what you get: new Active Terrain Adjustment. If you have rolling terrain or contours on your land, this option was designed with you in mind.

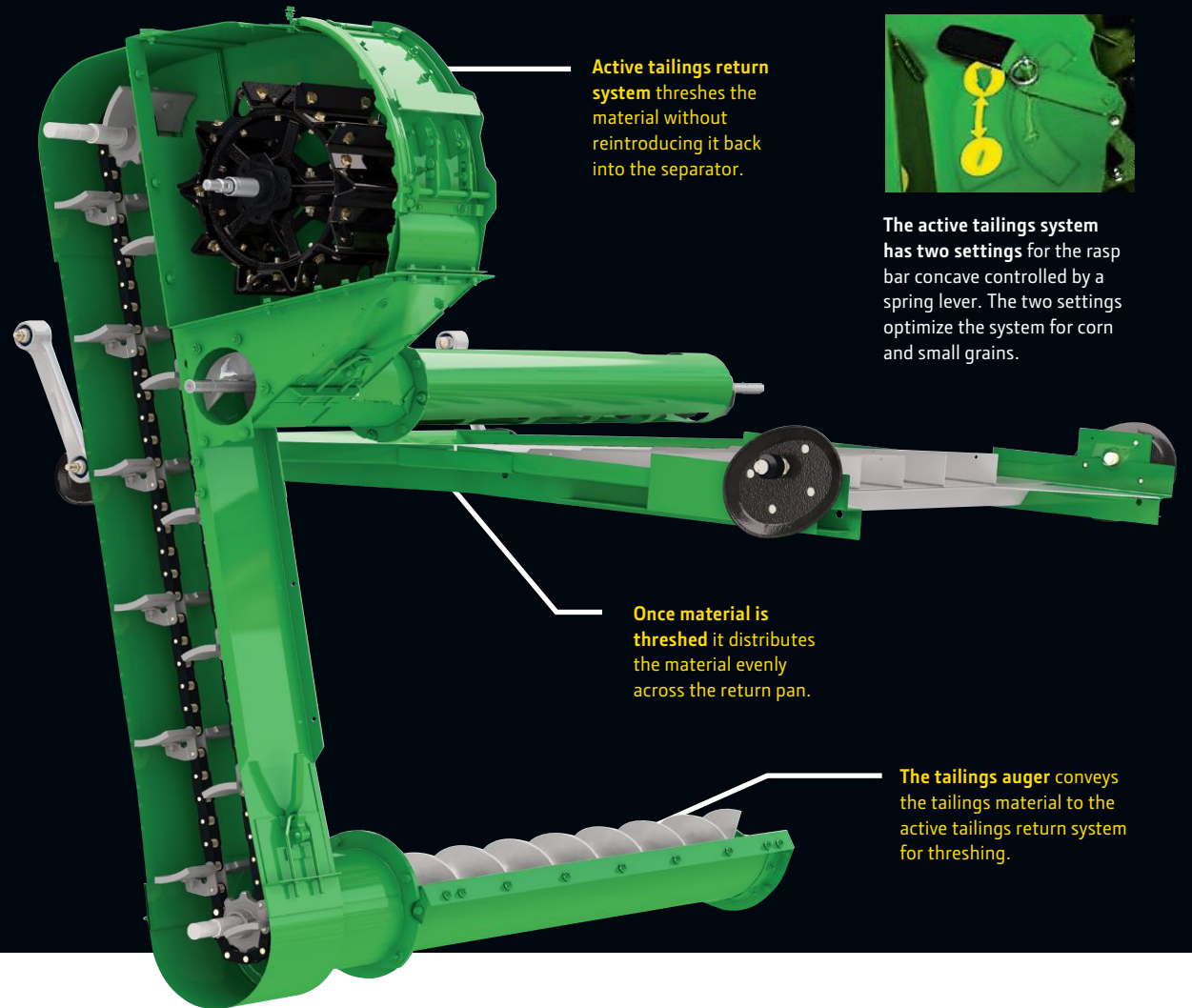
Active Terrain Adjustment automatically adjusts your cleaning shoe settings if you have rolling terrain in your field. One glance at the chart below shows you the whole story. As you see, on inclines Active Terrain Adjustment opens both the chaffer and sieve, while reducing fan speed to keep grain from going out the rear. And on declines, the chaffer and sieve close, while fan speed increases to keep grain from pushing towards the front of the machine.

So whether you're going uphill or downhill, the combine will maintain ground speed and minimize grain loss with the varying landscape changes. As an added bonus, Active Terrain Adjustment increases total combine capacity on uphill slopes to drastically reduce grain loss. And it reduces your tailings, too. But perhaps the most impressive thing it gives you is a cleaner grain tank sample.



Active Tailings System

Higher capacity with a gentle touch. If you run a large combine and work a lot of acres, then you'll appreciate the Active Tailings System on the S680 and S690 models. By handling returns that might normally go back to the separator, consuming its performance, it distributes the grain and material back onto the return pan, not to the threshing area, and increases the total capacity of your machine. Better still, it's easy to adjust. Our Active Tailings System uses less aggressive concave settings than the ones in your separator – and handles sensitive crops gently, maintaining grain quality.



Active tailings return system threshes the material without reintroducing it back into the separator.



The active tailings system has two settings for the rasp bar concave controlled by a spring lever. The two settings optimize the system for corn and small grains.

Once material is threshed it distributes the material evenly across the return pan.

The tailings auger conveys the tailings material to the active tailings return system for threshing.



Touch, Set, and Go.



With the selection of a crop and the touch of a button or screen, the TouchSet automatic combine adjust allows you to fine-tune the threshing rotor rpm, cleaning fan rpm, concave clearance, main chaffer opening, and sieve opening all from the armrest console in the cab, while you're moving.

It comes pre-loaded with a number of factory settings. Plus, you can store one customized setting for each crop setting and a number of personal settings for specialty crops like sunflowers that aren't already pre-loaded.



So you don't have to climb back into the cab, convenient and easy ground level adjustment of the cleaning system is standard on all S-Series Combines.

Grain handling capacity that keeps you running

High yields, tough schedules, and the all-new Dyna-Flo Plus Cleaning Shoe. Together, they necessitate a clean grain handling system that can keep up with your harvesting pace. Here's how the S-Series Combines deliver:

400-bushel grain tank - Our S690 machines boast a 115 bushel-per-minute capacity, in order to attain matched capacity with available front-end equipment.

Fast delivery – 105 seconds (that's 3.8 bushels/second) is all it takes to empty the 400-bushel grain tank that's standard on the S680 and S690.

Better handling – The optional 26-foot (7.9 m) rigid unloading auger pairs ideally with the 40-ft platforms and 18-row corn heads, making unloading on-the-go a stress-free operation.

But sometimes stress can come when you're not harvesting ... say, during transport or trying to store the machine. That's where the 26-ft folding unloading auger comes in. It reduces overhang at the rear of combine by five feet to give you greater ease and spacing efficiency on the road or in your machine shed.

There's more. With the 28.5-ft unloading auger, we've extended reach by two and a half feet. Doesn't seem like much. But consider with the extra length you can now unload on-the-move with a tractor and grain cart combo that's equipped with dual tires, while offering greater clearance for 640FD HydraFlex Draper operation, and necessary for 645FD use.



A different kind of cleaning system. While your cleaning shoe handles your grain, our all-new on-board air compressor will keep the outside of your machine looking neat and like-new. Located in the engine compartment, the air compressor offers a quick and convenient way to upkeep your combine, which helps with the uptime of your machine.



The John Deere folding unloading auger options shorten the length of the combine, making it easier for you to transport and store your machine. 22.5-foot and 26-foot augers available.



The moisture sensor is mounted on the clean grain elevator on all S-Series Combines. It provides on-the-go, real-time moisture measurement you can count on.



Push to fold



The 300 bu (10,600L) and 400 bu (14,100L) grain tanks on the S-Series combines are available with power-fold extension/covers as an option. Stay in your seat, push a button and the grain tank fountain auger and grain sample trough folds automatically. There's no need to enter the grain tank.



Be on the lookout. In 2016 we'll introduce our next ground-breaking solution: Active Yield. This new feature will offer a consistent level of yield accuracy with automated calibration. You read that correctly – consistent yield accuracy ... automated calibration. Your harvest operation has nowhere to go but up from here.

Chop, drop, size and spread

Chopped, dropped or fine-cut...the S-Series Combines feature residue handling systems and options that are designed to take care of your residue management needs.

The S-Series Combines feature a fine-cut chopper. The chopper blades, along with unique air shrouds in the chopper housing, give an ultra-fine cut while generating a strong blast of air for more even residue distribution.

They also feature a manually adjustable vane tailboard design, perfect for spreading residue in widths to 30 feet (9.14 m). This system is easy to swing up and out of the way for windrowing.

To better manage residue distribution with wider platforms, the PowerCast™ tailboard spreads residue 30-50 feet (9.14-15.24 m). This feature spreads residue evenly, which helps you get even crop emergence in the future, especially in no-till fields.





The PowerCast™ tailboard provides an effective way to manage residue disposal on your wider platforms. PowerCast evenly spreads residue 30 to 50 feet to help with even crop emergence, especially in no-till farming. PowerCast is hydraulically powered and mounts to the rear of the chopper, but all you have to do is relax in your operator seat to set the speed of the system: it's controlled by a button on the CommandTouch armrest.



Chopper blades feature large surface wings with long-lasting, wear-resistant material. The wings are positioned to generate maximum airflow to the outer edges of the chopper, giving you a more consistent spread pattern. Fewer blades reduce power requirements and lower replacement costs.

Enhanced residue disposal



The Advanced PowerCast™ tailboard and straw chopper is an option of the premium residue system that gives you additional residue management flexibility. The Advanced PowerCast tailboard contains two hydraulically-driven enclosed discs and a center divider that moves back and forth in a pendulum motion. A straw chopper, overshot beater, and straw chute complete the premium residue system.

With the premium residue system you can:

- Chop straw and chaff, and then spread both by making adjustments within the cab
- Form a straw windrow while chopping and spreading chaff
- Form a straw and chaff windrow without chopping material
- In-cab shroud adjustment for wind compensation
- At the touch of a button swap the shroud position to match wind direction



Final Tier 4 power is just the start

The most important thing to be in compliance with is our customers. So while a Final Tier 4 engine is necessary, the real priority is offering more power to every harvester.

It starts with the power increases made to the 9L PowerTech PSS engine found in the S650, S660 and S670. With horsepower jumps of 300, 333 and 391, respectively, the 9L engine allows for the type of responsiveness and performance improvement that doesn't just pass the mark, it resets the bar.

Then there's the 13.5L PowerTech PSS engine built into the S680 and S690. This robust engine digs deep to power every feature available. Improved power bulge and peak torque. Series turbocharging that jumpstarts performance with added boost pressure. High-efficiency air-to-air cooling for greater fuel economy and reduced costs. Plus, high-pressure fuel systems that put the real kick in this Deere. This is more power where you need it most.

And with the pairing of the cooled exhaust gas recirculation and the selective catalytic reduction, you get an engine that offers a diesel exhaust fluid consumption rate of 2%. Eco-friendly, customer-friendly solutions ... that's the value of a John Deere PowerTech engine.

Both the 9.0L and 13.5L Final Tier 4 PowerTech PSS Engines deliver higher performance for the S-Series. These engines feature automatic fuel priming, fuel filter change indicator, water-in-fuel sensor and more.

Consistency = More Control

The **Isochronous Governor** on the S-Series Combines keeps drives operating at a constant speed, enhancing your combine's overall capacity and efficiency. In tough, wet or dry conditions, the shoe and separator operate at a more consistent speed, delivering a more uniform separation and cleaning of the crop.

- **Consistent engine speed equals better durability.**
- **Consistent engine speed equals better hydro control with constant pump speed.**
- **Consistent separator performance**





PowerTech™ PSS Engine: Built to the highest standards ... especially yours

Series turbochargers

Deliver higher power, more low-speed torque and engine responsiveness to meet varying load conditions.

Variable geometry turbocharger (VGT)

Electronic controls open or close variable vanes depending on load and speed. Optimized airflow generates more boost allowing for quicker load response, increased low-rpm torque, better transient response and improved fluid efficiency.

High-Pressure Fuel System

Enables precise control for start, duration and end of injection; controls fuel injection timing and provides higher injection pressures improving combustion, engine performance and reducing emissions.

Catalyzed Exhaust filter with DOC/DPF

Exhaust gases flow through an oxidation catalyst and filter trapping particulate matter. During normal operating conditions the engine's natural heat oxidizes the trapped particulate matter and cleans the filter.

Cooled Exhaust Gas Recirculation (EGR)

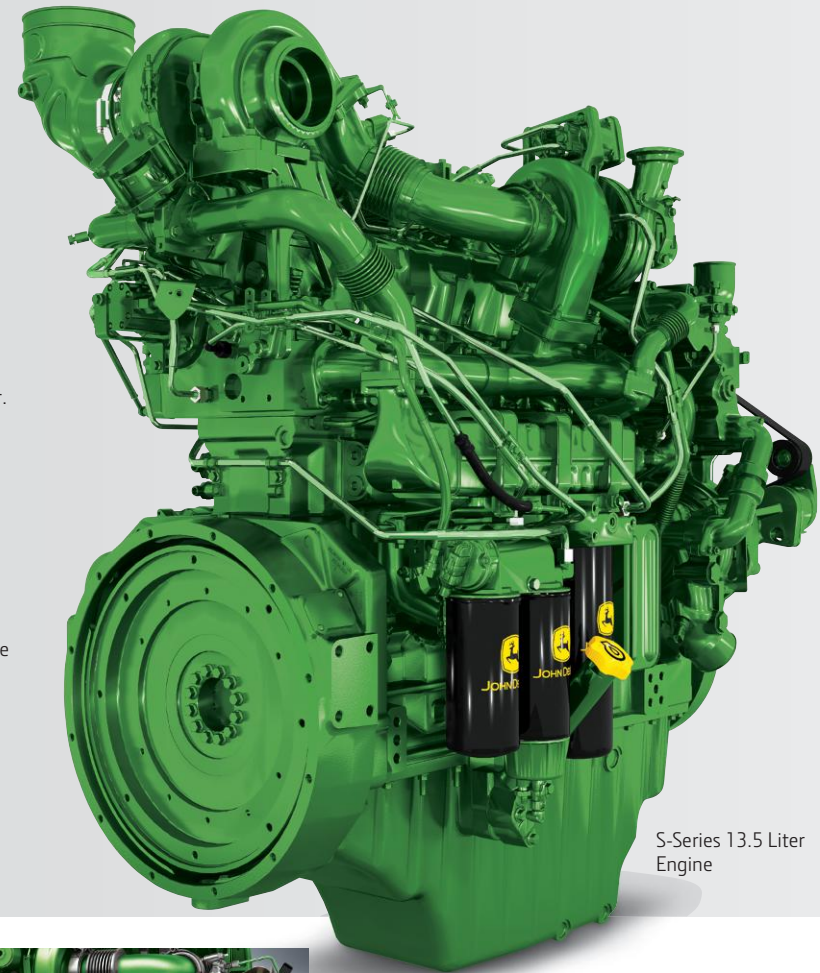
Precise amounts of cooled exhaust gases are mixed with incoming fresh air lowering combustion temperatures. This improves performance and lowers emissions.

Selective Catalytic Reduction (SCR)

This technology utilizes a urea based additive referred to as diesel exhaust fluid (DEF). The ammonia in the urea mixes with engine exhaust gases in the SCR catalyst to reduce NOx. The optimization of cooled EGR and SCR allows John Deere machines to use less DEF than other FT4 solutions.

Air-to-air aftercooling

Lowers the intake manifold air temperature promoting more efficient cooling and greater engine reliability.



S-Series 13.5 Liter Engine



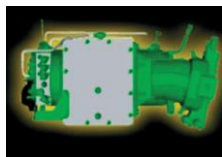
S-Series 9.0 Liter Engine



The ProDrive™ Ground Drive System

Get more precise, more consistent control of your ground speed throughout the travel range of the hydro handle. ProDrive lets you switch between two infinitely variable speed ranges with the push of a button. Using the CommandTouch™ armrest console, set the first range for typical harvesting speeds, and the second for transport.

Engine Speed Management puts the brakes on operation costs. Available on S670, S680, and S690 ProDrive machines, it reduces your combine's engine RPM's during transport while still maintaining a productive ground speed. The result? A 10-20% fuel savings, helping you increase fuel efficiency by up to two gallons an hour.



Another benefit ProDrive delivers: An electro-hydraulic differential lock with a 4-pinion differential for greater traction in muddy harvesting conditions.

The right transmission for you

ProDrive: Automatic efficiency

Seamless shifting. When ground conditions change, ProDrive lets you smoothly shift between two speed ranges with the push of a button. You'll no longer have to stop to shift when going up or down hills or exiting fields.

Speed Selection. Set one speed for normal harvesting, the other for faster field work or transport. Then select any speed in either range by using the hydrostatic control handle on your CommandArm™ console.

More torque. With power to spare, ProDrive makes light work of tough conditions. It delivers 64% more torque at a harvesting speed of 5 mph (8 km/h).

Push Button Shift Transmission

Shifting made easy. Our three-speed Push Button Shift Transmission makes shifting easy. Simply bring your machine to a standstill, select the gear you need by pressing one of three buttons on the arm rest and let the combine do the rest. Our Push Button Shift Transmission applies the park brake automatically to ensure seamless shifting.

Comfort and control. Our Push Button Shift Transmission makes operation easier with features like the automatic park brake. As soon as you pull the hydro level to the neutral position, the park brake is applied giving you more comfort and control and helping you through those long working days.

Two-speed 4-wheel-drive lets you switch between torque ranges. In slow-speed mode, the high-torque rear assist is ideal for tough conditions. Use high-speed mode for low-torque performance and faster ground speeds.

All S-Series Combines feature a high-strength axle built from a one-piece rectangular tube welded to the separator uprights. Its load-carrying ability and durability are far superior to the bolt-together designs found on other combines.





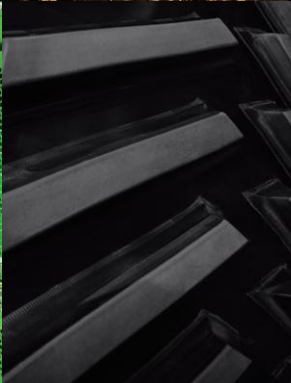
The heavy-duty final drive is designed and manufactured with a massive, ductile iron housing that provides high load-carrying capability. The single-piece, die-quenched ring gear provides high strength and long wear life. The final drive provides the capacity to handle larger high-flotation tire options as well as wide draper platforms or large corn heads.



The hydrostatic system includes a variable displacement pump gear driven from the main engine gear case and a variable displacement motor located on the ProDrive™ Transmission. This provides an infinite speed range in each gear and eliminates ground belts, reducing maintenance.



All S-Series Combines feature adjustable rear axles that let you adjust tire tread from 120- to 152-inch centers (305-cm 386-cm) in 4-inch (102-mm) increments... ideal for ridge-tillage operations.



John Deere Tracks for S-Series Combines

Some days just aren't meant for harvesting. Thankfully, there's a lot fewer of those days now than there used to be. The new 36-inch tracks option makes sure of that.

Let's go over this. The tracks system offers the flotation you need to hover over muddy slopes and through soaked fields. A high idler design enhances performance to get you into the field when your crop is ready. Because the idea is to get the job done on your clock, and not on nature's.

Take the pressure off. Lose the tires to increase flotation and reduce compaction. It's that simple. Tracks reduce ground bearing pressure, so when conditions are less than adequate, you can still harvest at optimal levels.

100% versatility. When you use tracks is your decision. Giving you - the customer - the ability to go from tires to tracks and back again was our decision. 'Either-or' simply was not an option.

Get a grip. Need even more traction? New for this year, rice slugs are now available for the tracks option to give you better, more reliable footing in rice fields or other really muddy conditions.

Automate your corn harvest with AutoTrac™ RowSense™

To get every dollar from every hour and every acre, consider some of these technology options available from John Deere.

The biggest opportunity for corn growers is the availability of AutoTrac RowSense. It delivers the accuracy and efficiency you expect from AutoTrac even if you're harvesting in down corn, around terraces, or on pivots. Fusing GPS data from the StarFire™ receiver with mechanical feeler data gathered from the row sensors (installed on the row units), AutoTrac RowSense lets you harvest hands-free in down corn, around terraces, or on pivots.

With our satellite-based hands-free AutoTrac system, every pass matches the full cutting width of your corn head. As an added benefit, AutoTrac helps reduce fatigue and stress that can come from a long workday.

When harvesting in other crops, add ease and convenience by using AutoTrac. Both it and AutoTrac RowSense are scalable to the level of accuracy your operation demands. And because all S-Series Combines now come AutoTrac Ready, you can take advantage of guidance efficiencies with little setup.

Keep track of what you're harvesting with the standard Harvest Monitor – view yield and moisture readings on-the-go. Add Harvest Doc™, and record yield, moisture, and production details, as well as create maps and reports to help with next year's planning.



Automated Guidance. Whether it's you in the cab or a less-skilled operator, the John Deere AutoTrac guidance system delivers a quick payback. Choose the level of accuracy you need, from 9 inches pass-to-pass, 2 inches pass-to-pass or one-inch accuracy (with RTK). To make it even easier, all S-Series Combines come AutoTrac Ready for the best integration in the industry.

Sync up your operation

Combine Harvest Automation and Harvest Logistics

Let's get your operation on the same page with the many offerings from Machine Sync, starting with Combine Harvest Automation. It creates a network between a fleet of tractors and combines allowing automation that facilitates on-the-go unloading by synchronizing tractor speed and direction of travel with the combine. It also provides greater ease of operation with improved efficiency during harvest.

And with Harvest Logistics, productivity gains are credited to the tractor or grain cart operator's ability to be in the right place at the right time with in-field logistics information. The GreenStar 3 2630 Display shows in-field logistics including grain tank-fill status, direction of travel, and location for each combine and tractor in the network fleet.

Share and share alike

New Coverage Map Sharing and Guidance Line Sharing

They say communication is key. Never has that been truer than now. Announcing Coverage Map Sharing and Guidance Line Sharing: two new Machine Sync functionalities that show the true value of machine-to-machine communication.

Coverage Map Sharing – when paired with overlap control – allows you to see where another machine has already been in the field. So if you have multiple John Deere combines harvesting, then you

now get a more accurate calculation of your yield acreage totals. That means visibility to passes, header width, and acres covered. More importantly, it's information you can trust.

As for Guidance Line Sharing, it cuts down on the time and effort it takes to set your coordinates and get multiple combines lined on your A-B line. Your operation will run more smoothly and more in-sync than ever before.

Documentation. Keeping detailed records is a snap! Every S-Series Combine comes equipped with Harvest Monitor – see the crop's yield and moisture measurements as it's harvested. Information is readily displayed right on the CommandCenter™. Capture and store harvest data with Harvest Doc on your GreenStar™ 3 2630, then download data later into the Operations Center in MyJohnDeere for future planning.

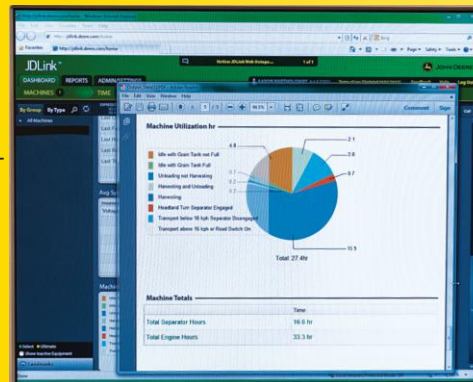




JDLINK™ Connect: Stay in the know ... on the go

Looking for real-time answers to the challenges that matter most? Ask your dealer about JDLINK. This advanced, web-based telematics solution comes standard on a new S-Series, from the moment it leaves Harvester Works. And getting started is simple. Just contact your dealer and have them set up your MyJohnDeere account to start receiving the information you've been looking for, such as:

- Machine location – see which machines are in the field and where
- Location history – keep track of where and in which fields your machines have been running in and what they've harvested
- Geofencing – protect machines against misuse and theft
- Maintenance planning – stay informed of when the next maintenance check is due and the best way to manage it
- Fuel consumption – view how much fuel your operators are using in different operations
- Machine hours – keep track of how long your machines are running
- Machine utilization reports – set up scheduled reports to receive key usage data
- Machine alert monitoring – farm managers or dealers can be more proactive to machine issues



JDLINK Connect

Boost productivity and protect your machines from theft or misuse. The diagnostic capabilities keep your harvesting operations running smoothly and at peak performance.



Remote Display Access saves unnecessary trips to the field by providing real-time information directly from the machine's display to your dealer, to another farm operator, or to a trusted advisor making troubleshooting no trouble at all.

Wireless Data Transfer enables your machine data to move easily between MyJohnDeere, the 2630 display and your farm management information system. Best of all, it eliminates the need for manual data transfer.

Machine Specific States gives you the ability to see actual combine settings as you're working in the field, including sieve clearance, threshing clearance, and chaffer clearance. You can see combine speeds, as well ... like cleaning fan speed, reel speed, and much more.

Location History offers customers a look into the combine's last 24 hours of activity. If you want to improve efficiency or locate a stolen machine, you'll find all the information here.

ServiceADVISOR™ Remote

With your permission, your dealer can remotely access your machine from the dealership, monitoring trouble codes and diagnostics, as well as updating software. No lost time. Instead, your dealer can respond quickly to your needs and keep you harvesting.

T670 Combine: Quality from start to finish

If producing high-quality straw for baling is as important as the grain, look no further than the T670 Small Grain Combine. We engineered this Class 7 combine to provide straw quality that's second to none, even in tough, high-yielding crop.

We accomplished this by pairing conventional threshing technology with the Tangential Tine Separator. This approach uses a tangentially mounted separator and a large wrap concave to give thorough separation, yet with fewer opportunities for grain and straw damage. From the threshing system back, the T670 uses straw walkers to gently separate grain from the crop mat.

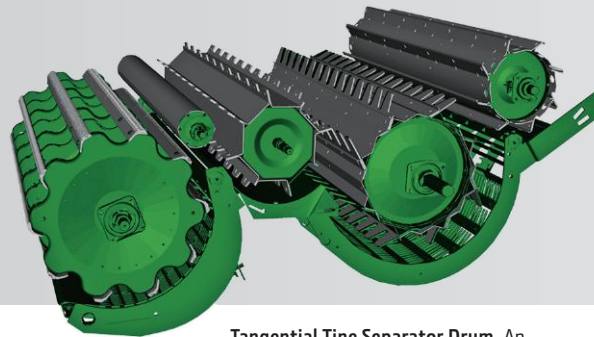
Aside from a different threshing and separation system, you'll find that the T670 provides you the same excellent field performance you've come to expect from its S-Series cousins. Likewise, the cab controls are comfortable and easy-to-use.

The T670 pairs perfectly with the 600 Series HydraFlex™ and Rigid Platforms, the 615P Belt Pickup Platform, and the high-capacity 600D Series Draper Platforms. Simply choose the platform that best complements your operation.

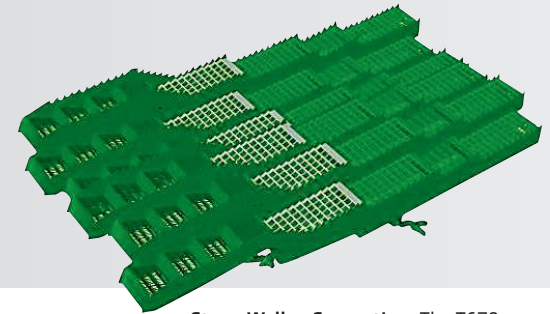


Engine Power. The 9.0L PowerTech™ PSX Engine found on the T670 provides 373 hp at rated speed for tremendous productivity, even in heavy crop. You'll also appreciate the 7-percent Power Bulge and 33 hp Unloading Boost.

Premium Residue Management. Choose long straw for baling or fine-cut chopping. Chaff from the cleaning shoe can be spread separately from the chopper or incorporated into a windrow. Need to switch your approach when you move to a different field? No problem. The change-over requires no tools.



Tangential Tine Separator Drum. An innovative over-and-under slat tine separator drum technology is gentle but effective in small grains.



Straw Walker Separation. The T670 uses six long straw walkers to gently separate grain from the crop mat. Seven aggressive steps move the material, but with minimal horsepower use.

Looking to squeeze more production out of the day?

+ Add More

There's more to your combine than you know. How much more? Well, that depends. What are you looking to get out of each day, each crop, or each harvest? Whatever the answer, we can help.

Add more convenience, reliability, visibility ...

Make your combine unique by adding quality John Deere attachments and accessories, and get more out of your investment. Whether that's today, with improved performance in the field to help cultivate a more robust harvesting operation, or later down the road, when the time comes to trade or sell, so you can get back all that you put in.

From deflector kits, to observation systems, to grain tank sensors, and so much more - your John Deere dealer has you covered with all the parts and attachments you need.

S600



Extended-wear concaves. Double the life of standard concaves with our extended-wear concaves. Ideal for abrasive crops including rice, edible beans, high-yielding irrigated crops, and hard-to-thresh crops.

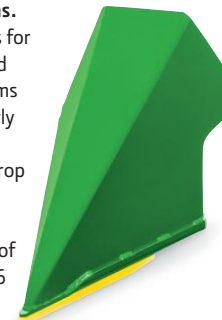


Additional grain tank sensor. The fast easy way to let you know when your combine's grain tank is full when harvesting on sidehills.



In-cab mobile devices mounting brackets. We've made it easier and more convenient for you to have hands-free access and improved viewing of your iPad, iPhone, or other mobile device from the seat of your cab. They're easily accessible and don't interfere with visibility and machine controls. Even better, they're customizable to fit your specific cab needs.

Crop divider extensions. Crop divider extensions for the 600 Flex Draper and 600 Flex Auger Platforms knock down significantly less crop enabling the head to pick up more crop on subsequent passes. Available for new and prior model-year units of the 600F, prior-to-2016 models on the 630FD, 635FD, and 640FD. Not compatible with 645FD.



Sidehill performance kit. Improve combine performance on sidehill slopes up to 8° (14%) by reducing cleaning shoe grain loss to acceptable levels. Kit includes tall chaffer dividers, exclusive grain agitators, and grain pan diverters.



Camera observation system. Get a clear bird's eye view of your important combine functions on the go. Ideal for improved visibility of your grain tank and sample as well as during unloading into tall grain carts or trucks.

The John Deere Dealership Promise: Standard with every piece of equipment we sell

In each one of the nearly 2,000 North American John Deere dealerships, you'll find a committed staff of sales, service and parts technicians, all dedicated to keeping your S-Series Combine running smooth and strong throughout the entire harvest season.

The John Deere Dealership Promise: Standard with every piece of equipment we sell.

You can't see it and you can't order it, but the John Deere dealership promise comes with your combine to keep it running smoothly all season long. Take a look:

We promise to support your combine with a powerful dealer network that stretches across all of North America.

We promise to have trained parts and service technicians who can help you achieve high up-time and low maintenance costs.

We promise to diagnose and speed needed repairs through the use of the latest computer technology.

We promise tremendous parts support through both our in-stock parts inventory, as well as with JDParts.com.



S-Series Combines let you breeze through your service and maintenance schedules ... starting with accessibility. Gas struts on the side shields allow them to virtually lift on their own, without any heavy lifting. Service and maintenance points are easy to locate, too, thanks to an uncluttered layout. You can view everything from the separator and cleaning shoe (left side) to the tailings and clean-grain elevators (right side). Greasing the lube banks are easy, as well. Or choose the automatic grease option. Bottom line: service less, harvest more.



GoHarvest Combine Simulator

Welcome to new-school training. The GoHarvest Premium Combine Simulator was designed to provide a safe, economical and efficient way for large producers or custom cutters to train their labor force. The virtual environment allows your employees to learn how to be a more skilled operator from the safety and convenience of an indoor location. And because they're learning on a simulator and not an actual machine, it's more cost-effective to your bottom line, decreasing the amount of money it takes to refuel during training, and keeping your combine's resale value at its highest.



Sometimes the best new addition to your fleet isn't new



If you've ever considered purchasing a used combine, this is the ideal time.

Besides the impressive fuel economy, comfort, convenience and technology found on all John Deere combines, the value that comes with purchasing a John Deere Certified Pre-Owned machine is hard to ignore. Every CPO Combine is covered by a one-year Comprehensive PowerGard™* plan, giving you the coverage benefits of

new, with the extra value of pre-owned.

Right now, no one else offers a low-hour combine that's been field tested, inspected and certified on over 200 points. Top to bottom, front to back, everything from engine performance to wiper blades is put to the test and thoroughly examined by a John Deere Certified Technician. Add to that a free year of JDLink™† and a John Deere Certified Pre-Owned combine deserves even more of your attention. New or new-to-you, Nothing Runs Like A Deere.™

*See the PowerGard Protection Plan contract for all terms, conditions, limitations and exclusions.

†Activation/subscription required. Some additional accessories and/or components may be required. JDLink requires a cellular data connection to transfer information from machine to JDLink website. Consult your local John Deere Dealer for coverage availability.

See the highlights of the S-Series

If words alone don't tell the whole story, then now's the perfect time to visit JohnDeere.com and see these harvesters in action. Just go to our Combines page and check out a number of impactful and insightful videos.

'Key Features' tells you all about the attributes and technologies that have made the S-Series one of the premiere combines on the market.

'2016 S-Series Combines' gives you a first-hand look at the latest products and solutions we've weaved into our model-year '16 lineup.

'Delivering Distinction' takes you through the development process of the S-Series – from design, to manufacturing, and beyond – and how we've focused on the only requirement worth considering: our customer's needs.



S-Series Combines

The Greatest Harvesting Era Continues
Experience the new 2016 S-Series Combines

S-Series Combines: In the business of helping yours.

Good things come in small grains packages*

Now for 2016 we've brought smart grain and rice packages featuring Active Control technology for the new 8800 and 9500 Combines. ACI offers increased productivity in spring wheat, sorghum, rice and more. But it's just one part of the equation. To get the full benefit, you need the total package, adding to productivity improvements. Strong fuel economy, and heavy-duty suspension comes with the best of everything. Together, these packages save throughout the 2016. When it comes to harvesting, to keep you on the cutting edge, we've got the most advanced and well-proven crop into the machine. Also, with the 100-hour total grain package you get an additional 100 combine capacity, while maintaining your top team.

S-Series Key Features

The S-Series combines in real harvest reduce the risk of other things you never thought you could. That way to be certain is to check out our all-new 2016 S-Series. Because that's the way to be certain is to check out our all-new 2016 S-Series. Because that's the way to be certain is to check out our all-new 2016 S-Series. Because that's the way to be certain is to check out our all-new 2016 S-Series.

*Video Key Features Video

S-Series Combines Specifications

MODEL	S650	S660	S670	S680	S690	T670
ENGINE						
Type	John Deere 6 cyl. 9.0 L	John Deere 6 cyl. 9.0 L	John Deere 6-cyl. 9.0 L	John Deere 6-cyl 13.5 L	John Deere 6-cyl 13.5 L	John Deere 6 cyl. 9.0 L
Displacement (L/cu. in.)	9.0/548	9.0/548	9.0/548	13.5/824	13.5/824	548 cu. in (9.0L)
Fuel Capacity (L/gal.)	950/250	950/250	950/250	1250/330	1250/330	800/211.3
Cooling	Air-to-Air Aftercooler	Air-to-Air Aftercooler	Air-to-Air Aftercooler	Air-to-Air Aftercooler	Air-to-Air Aftercooler	Air-to-Air Aftercooler
Rated Speed (rpm)	2200	2200	2200	2100	2100	2200
Rated Power (kW/hp) @ Rated Speed - T4	225/300	249/333	292/391	353/473	405/543	n/a
Power Boost @ Rated Speed (kW/hp) - T4	25/34	274/367	317/425	37/50	37/50	n/a
Rated Power @ -100 rpm Rated Speed (kW/hp) - T4	240/322	267/358	313/419	378/507	433/580	n/a
Peak Power @ -200 rpm Rated Speed (kW/hp) - T4	256/343	285/382	335/449*	402/540	460/617	n/a
Rated Power (kW/hp) @ Rated Speed ---NON-iT4	n/a	239/320	278/373	353/473	405/543	278/373
Power Boost @ Rated Speed (kW/hp) ---NON-iT4	n/a	25/34	25/34	37/50	23/31	n/a
Rated Power @ -100 rpm Rated Speed (kW/hp) ---NON-iT4	n/a	256/343	297/398	378/507	433/580	n/a
Peak Power @ -200 rpm Rated Speed (kW/hp) ---NON-iT4	n/a	272/365	317/425	402/540	458/614	n/a
*S670 Bulge Hp above 425Hp is limited by ECU timer						
FEEDING						
Drive Type	Variable	Fixed or Variable	Fixed or Variable or MultiSpeed	Fixed or MultiSpeed	Fixed or MultiSpeed	Fixed
Conveyor Chain Slat Type	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Under shot-slat
Width (mm/in.)	1397/55	1397/55	1397/55	1397/55	1397/55	1664/65.6
Length (mm/in.)	1727/68	1727/68	1727/68	1727/68	1727/68	1981/78
Feed Accelerator, Stone Trap (FAST)	Standard	Standard	Standard	Standard	Standard	Standard
Reverser	Standard	Standard	Standard	Standard	Standard	Standard
THRESHING/SEPARATING						
Separator Type	Rotary	Rotary	Rotary	Rotary	Rotary	6 Walker
Rotor Length (mm/in.)	3124/123	3124/123	3124/123	3124/123	3124/123	3251/128
Rotor Diameter (mm/in.)	762/30	762/30	762/30	762/30	762/30	6600mm X 1670mm/26 in X 66-in
Rotor Speed Range (rpm)	210-1000	210-1000	210-1000	210-1000	210-1000	240-990
Concave Area (m ² /in. ²)	1.1/1705	1.1/1705	1.1/1705	1.1/1705	1.1/1705	1.25/1937
Separating Area (m ² /in. ²)	1.54/2390	1.54/2390	1.54/2390	1.54/2390	1.54/2390	8.76/13578
Discharge Grate Area (m ² /in. ²)	0.36/555	0.36/555	0.36/555	0.45/698	0.45/698	n/a
CLEANING						
Front Chaffer (m ² /in. ²)	0.5/801	0.5/801	0.5/801	0.5/801	0.5/801	1.29/1999.5
Front Chaffer Extension (m ² /in. ²)	N/A	N/A	N/A	0.8/1224	0.8/1224	1.29/1999.5
Chaffer (m ² /in. ²)	2.5/3824	2.5/3824	2.5/3824	2.5/3824	2.5/3824	
Sieve Area (m ² /in. ²)	2.1/3255	2.1/3255	2.1/3255	2.1/3255	2.1/3255	1.81/2805
Total Cleaning Area (m ² /in. ²)	5.1/7905	5.1/7905	5.1/7905	5.9/9145	5.9/9145	4.9/7719
Cleaning Fan Speed (rpm)	620-1200	620-1350	620-1350	620-1350	620-1350	750-1600
GRAIN HANDLING						
Grain Tank Size (L/bu.)	8900/250	10600/300	10600/300	14100/400	14100/400	10600/300
Unloading Auger Length (m/ft.)	6.5/21.5	6.9/22.5, 7.9/26, or 8.7/28.5	6.9/22.5, 7.9/26, or 8.7/28.5	6.9/22.5, 7.9/26, or 8.7/28.5	6.9/22.5, 7.9/26, or 8.7/28.5	7.1/23.5
Unloading Rate (L/sec. / bu/sec.)	77 / 2.2	120 / 3.3	120 / 3.3	135 / 3.8	135 / 3.8	77/2.2



Whether you need to curb compaction, reduce rutting, or simply want greater traction when tackling muddy fields, John Deere offers you multiple flotation choices. You're sure to find a flotation system that will fit your operation and your budget.



A 580/85R42 R1W dual tire option is available on a universal rim that can be dished in or out without axle spacers.

NEW Low Sidewall (LSW) Drive-and-Steer Tires

You'll find some of the smoothest performance imaginable from our new LSW drive-and-steer tires. They offer a similar benefit solution as a track machine in a tire offering. That means you get superior traction and flotation when harvesting in soft, wet soil conditions. Also, they greatly reduce compaction and stubble damage to the tire. If that's not all, the LSW tires allow you to maintain transport speed without tire hop.

	S650	S660	S670	S680	S690	T670
FRONT TIRES						
800/70R38 R1W (GY or FS)		X	X	X	X	
520/85R38 R1 Duals (GY or FS)		X				
IF900/60R32 CFO R1 (FS)		X	X	X	X	
900/65R32 R2 (GY)		X	X	X	X	
IF1250/50R32 CFO R1W (FS)		X	X	X	X	
650/85R38 R1W Duals (GY, FS, or [Michelin] MI)		X	X	X	X	
580/85R42 R1W Duals (GY or FS)		X	X	X	X	
IF800/70R38 R1W CFO (GY, FS, or MI)			X	X	X	
520/85R42 R1 Duals (GY, FS)			X	X	X	
520/85R42 R1 Duals 157A8 (GY, FS)			X	X		
520/85R42 R2 Duals (GY, FS, or MI)		X	X	X	X	
520/85R42 R1 Duals (GY)						X
800/65R32 (MI or Mitas)						X
IF800/70R32 CFO (MI)						X
900/60R32 (Mitas SVT)						X
IF800/65R32 CFO (MI)						X
800/70R32 CHO (Mitas)						X
VF1250/35R46 CFO R2 (LSW)			X	X	X	
IF1100/45R46 CFO R1W (LSW)			X	X	X	
36" TRACKS						
ProDrive Transmission required			X	X	X	
REAR TIRES						
600/70R28 R1W (GY, FS)	X	X	X			
VF520/80R26 R1 (MI)		X	X			
23.1R26 R1 (FS)		X	X	X	X	
620/75R26 R1W (GY)		X	X	X	X	
VF620/70R26 R1 (MI)		X	X	X	X	
28LR26 R1W (GY)		X	X	X	X	
750/65R26 R1W (MI, FS, Mitas)		X	X	X	X	
710/65R26 R2 (GY)		X	X	X	X	
710/60R32 CFO 168 A8 R1W (LSW)			X	X	X	
VF750/65R26 R1W (FS)			X	X	X	
520/80R26 Cerebix (MI)						X
540/65R30 (Mitas)						X
600/65R28 (Mitas)						X

LEASING ADDS FLEXIBILITY.

Whether you're just starting out, nearing retirement, or anything in between, leasing can add financial flexibility and the latest technology to your operation.

OPERATION STAGE



STARTING OUT AND GROWING?

You've got the energy and the know-how, but cash is tight. Leasing equipment can free up cash for other purchases and ensure you have the equipment you need to maximize yields. *If that sounds like you, consider leasing.*

FREE UP CASH



STABLE OPERATION?

You've seen the ups and downs. Leasing equipment can reduce your downtime and keep the latest equipment in your fleet. Schedule equipment replacement at a lower cost than a cash purchase. *If that sounds like you, consider leasing.*

★ LATEST EQUIPMENT ★



NEARING RETIREMENT?

A transition is in sight. You need short-term options that keep you nimble. Stay up to date without committing to anything that could limit your options. *If that sounds like you, consider leasing.*

✓ YEAR-TO-YEAR FLEXIBILITY

*** LEASING = FLEXIBILITY ***

Start a conversation about leasing with your John Deere Dealer today. >



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