S-Series Combines

Unrivalled harvesting capacity. Outstanding reliability.

JOHN DEERE

We know your business. Like no other.

We've been building harvesting equipment for more than 100 years. In that time we've harvested more than a few billion tonnes of grain. We've also been harvesting the views and opinions of farmers and contractors the world over.

You've told us you want minimal grain losses, excellent straw quality, multi-crop capability, rock solid reliability, low operating costs and professional back up and support when you need it.

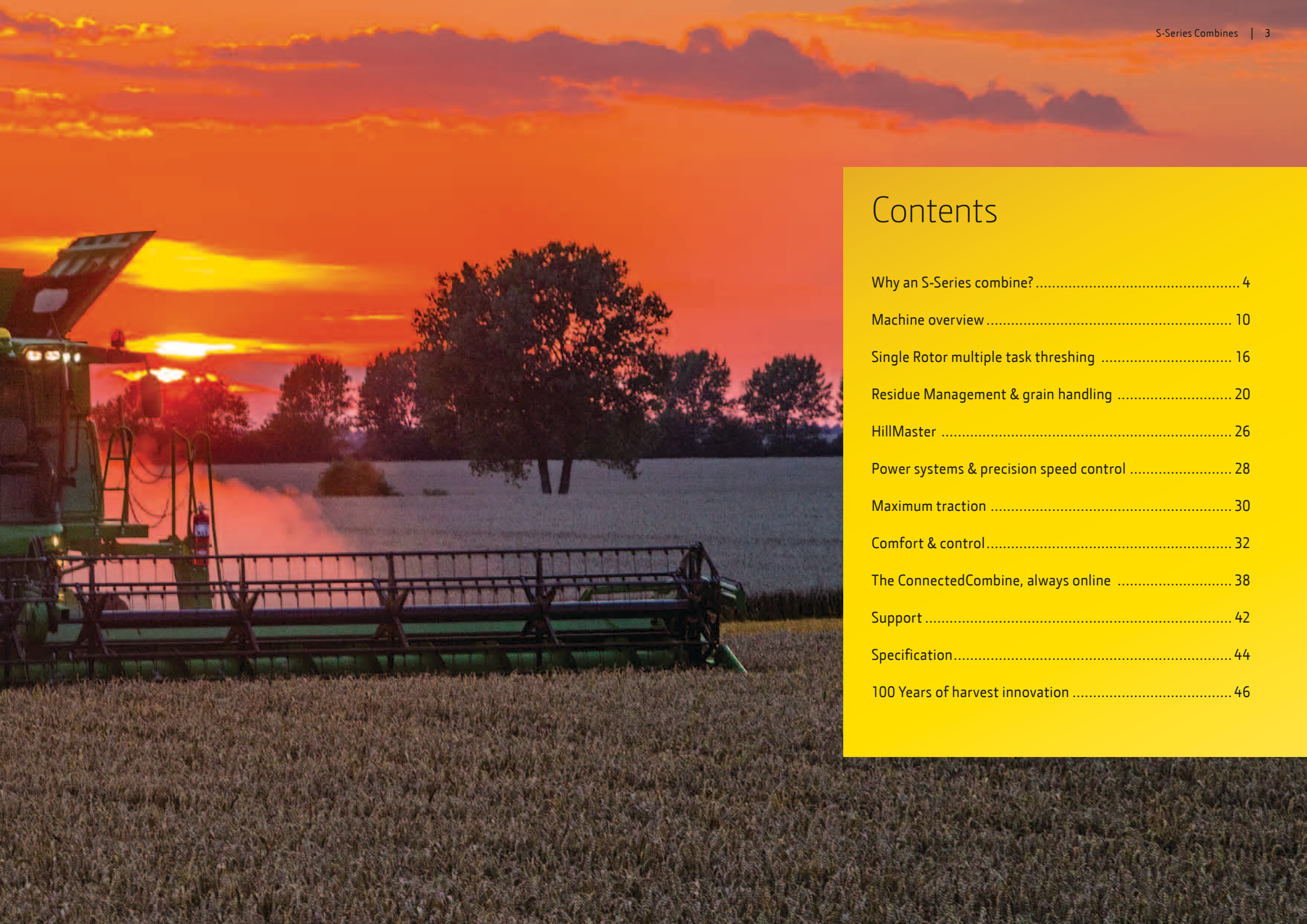
Welcome to the S-Series combines.

John Deere ...

... harvests half the world's grain

... invests €3.8 million in R&D every 24 hours

... has produced 1,100,000+ combines



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World leading technology. Unrivalled performance.

The single rotor combine is the logical evolution of years of designing, testing and listening to customers. Conventional combines offer excellent performance in specific areas. But single rotor combines are simply better all round.

John Deere invests more than any other agricultural equipment manufacturer in research and development. We were the first manufacturer to launch the hybrid combine, the CTS, which was a major step forward in harvesting capacity over conventional combines. Now we've created the S-Series. Developed in Europe, it's also built in Europe.

Designed for heavy, dense crops and high capacity, it doesn't just harvest more tonnes per hour, it minimises losses and broken kernels so more than 99 % of the grain goes into your tank and that means more money in your pocket.

Walker 1927
Traditional, proven design

Best straw quality

Hybrid 1991
Increased separation capacity

Best grain quality available

Single rotor 1999
Increased separation and threshing capacity

One rotor.
Many advantages.

Simple
Fewer moving parts. Easy access. Low maintenance.

Easy to use
Simple optimisation and stable performance in changing conditions due to new feederhouse, new active concave isolation, 8-wing beater and Variable Stream rotor.

Excellent power efficiency
Even crop feeding. Smooth transport. Gentle threshing.

Excellent grain quality
Crop on crop threshing. Minimal grain on metal contact. ~ 99.8 % perfect kernels.

High performance
Fast separation. Efficient threshing. More tonnes per hour.

Designed in Europe.
Built in Europe.

Over 20,000 hours testing in 53 countries and 36 different crop types makes the S-Series the most widely tested combine ever. That testing told us that no one combine configuration would meet every customer need.

In Europe, where dense, high yielding small grain crops are popular, the rotor design is completely different to North America. The residue management system is also totally unique to Europe. In fact, nearly half the components are completely different. That means you not only benefit from world leading single rotor technology but every single part has been optimised to meet the needs of European farmers.

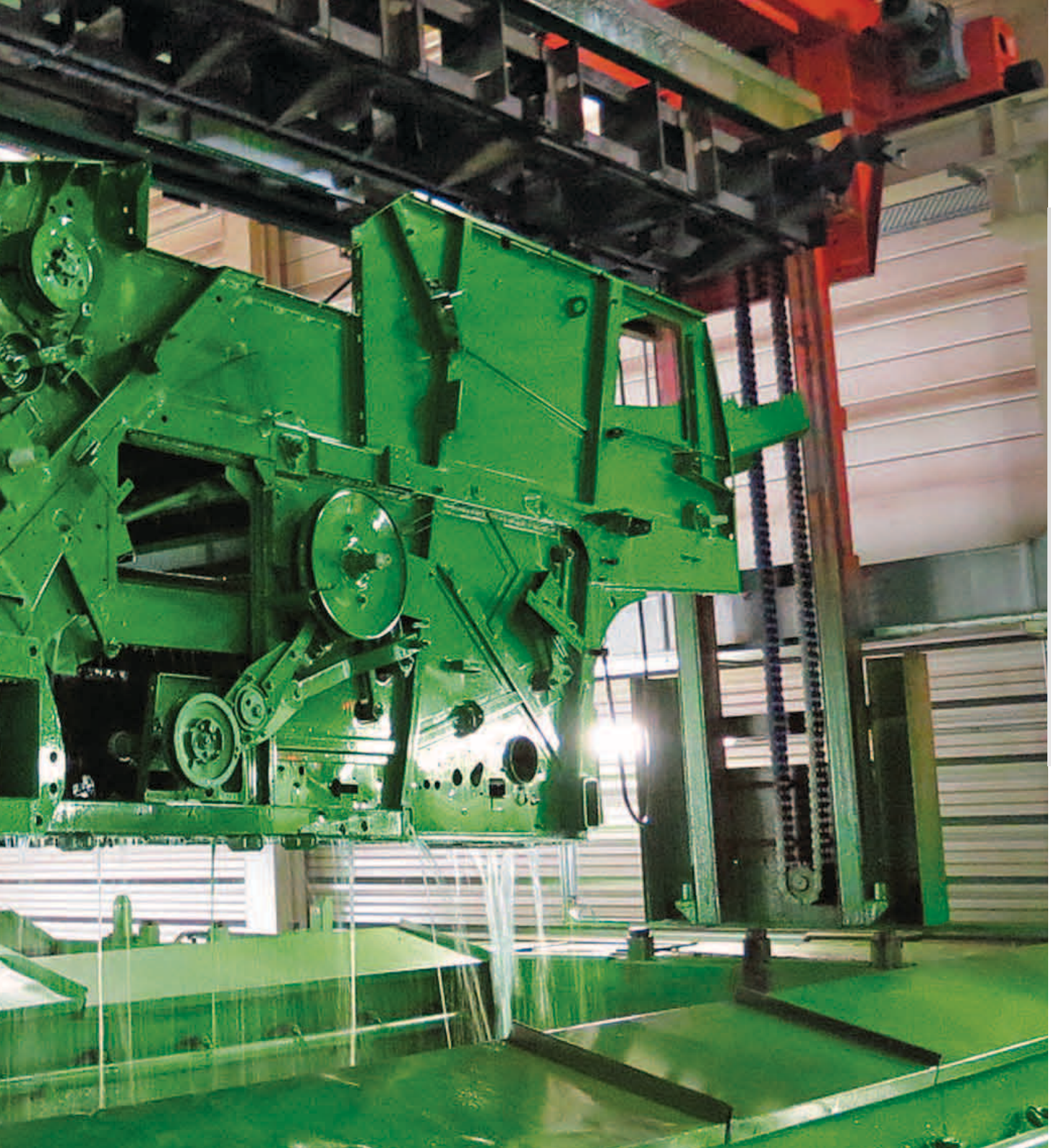
Regular samples from the windrow produced accurate data on the efficiency of the threshing and cleaning systems.

The mobile testing unit allowed the field team to assess grain and straw quality instantly and make adjustments on the go.

0.15 ± Millimetre welding precision

200 Million Euro investment programme

50 Years combine production in Europe



Made in Germany

€200,000,000 has been invested at our harvester factory in Zweibrücken to build the S-Series. The whole facility is certified to the international quality standard ISO9001 and the production line has been completely redesigned with Cellular Flow Manufacturing.
Multi-skilled technicians work in teams to manufacture components such as the rotor or cleaning shoe, with total responsibility for quality control. When you add to this robot welding systems accurate to ± 0.15 mm, laser cutters and precision stamping machines, it's no surprise that the S-Series sets new standards for quality and reliability.

Long term corrosion protection
The assembled combine is dipped in a cataphoretic bath before final painting. This ensures paint adheres to every surface including components in hard to reach areas.
The painted machine is then baked at 130° C to create a tough, durable coating with excellent corrosion resistance.

Low operating costs.
Industry leading service.

The S-Series delivers high grain quality and high throughput for low operating costs.

The single rotor design is simpler than other combines with fewer moving parts which means lower power consumption, less wear and fewer maintenance parts.In fact, there are no daily grease points on an S-Series and 25 % fewer belts than other combines.

The longitudinal engine design also has fewer belts and more direct power transfer for lower losses. The high cross-section rotor with auger driven cleaning system with less slope sensitivity means higher throughput, so you harvest more in a day. When you add all this up, the S-Series is an investment with high rewards.

It doesn't stop there either.

We've also completely re-engineered our back-up. €23 m has been invested in extra space at our European Parts Distribution Centre with additional parts hubs throughout Europe to minimise delivery times. And we're introducing a new set of dealer standards. John Deere is the only agricultural manufacturer which requires its dealers to have certified technicians and advisors.

John Deere FarmSight: Profit from insight

John Deere's FarmSight service packages take your harvest operations to a new level of efficiency, reducing unnecessary downtime and improving machine performance. With your permission, your dealer can provide real-time remote servicing as well as analysis and support.

With John Deere FarmSight you will benefit from:

– Better budget planning and preventative maintenance
– Increased uptime and lower fuel costs
– Improved operator skills, higher productivity and optimise fleet management

0 No daily greasing points

5 Seconds to switch from chop to drop

8 High performance header combinations

Our service promise to you

Growing numbers of John Deere dealers are certified combine dealers with guaranteed support standards you can rely on:

1. **Extended opening hours** during the harvest season

2. **Dedicated customer hotline**
   One number to call for all your harvest support

3. **Service Advisor Level 3 technicians**
   Factory trained experts who understand every part of your combine

4. **150+ point out-of-season check**
   A comprehensive service to ensure your combine is ready for the start of the next season

5. **Service ADVISOR Remote support**
   Machines equipped with JDLink will benefit from remote diagnosis for faster repairs

6. **Remote diagnosis and support**
   After delivery we will visit during pre-agreed times to provide professional advice on set-up and operator training

7. **High parts availability**
   We will keep adequate stocks of commonly used parts

Performance where it counts. Everywhere.

Large grain tanks for maximum capacity

Fewer stoppages.

Automatic transmission

No gear changing.

John Deere Remote Display Access

Dealer can view display remotely to offer advice on adjustments and settings.

Spacious cab

Excellent all-round visibility. Safer and easier loading and cutting.

Advanced threshing system

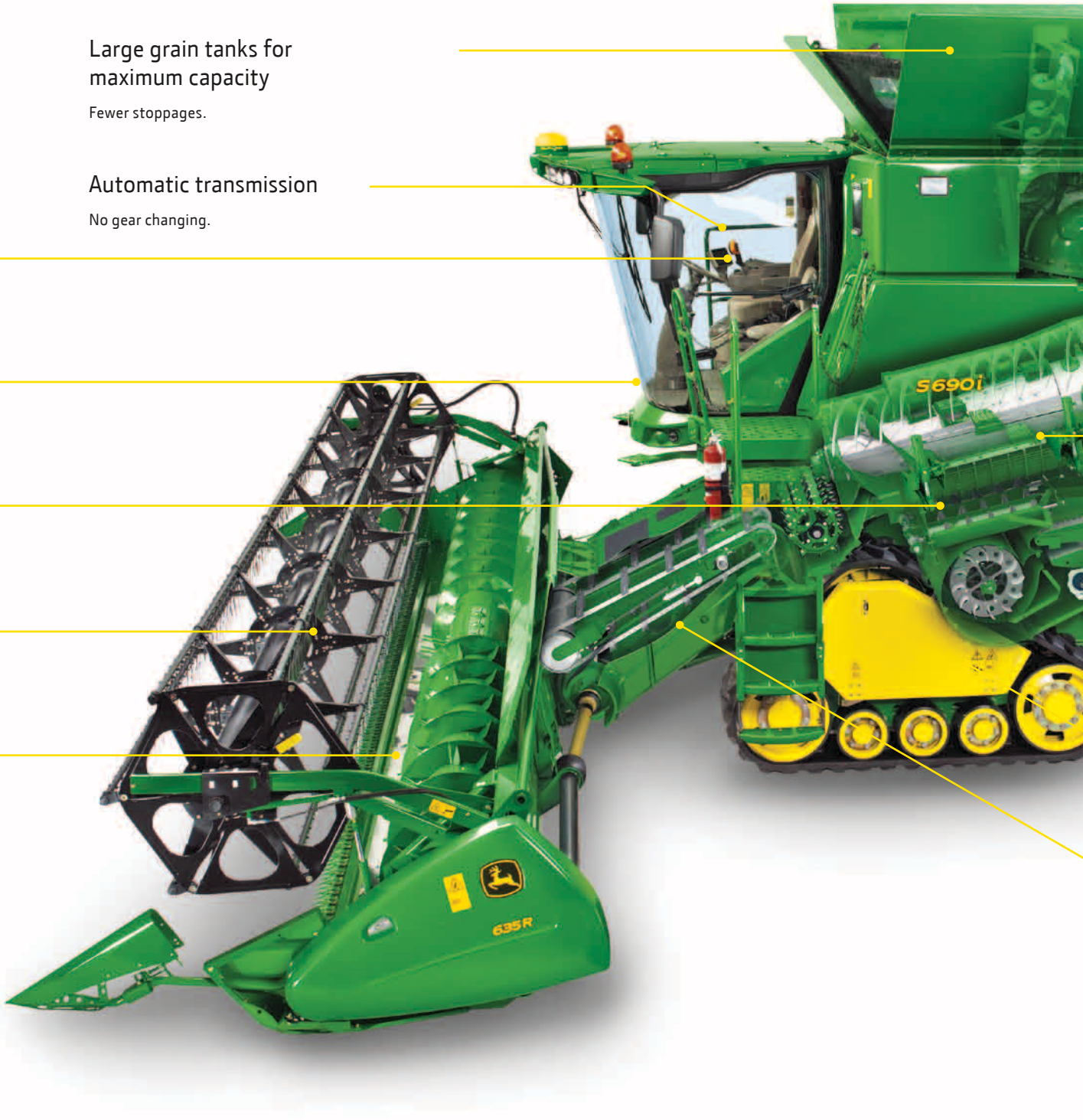
Preserves grain and straw quality. Uses less power. Higher harvesting capacity.

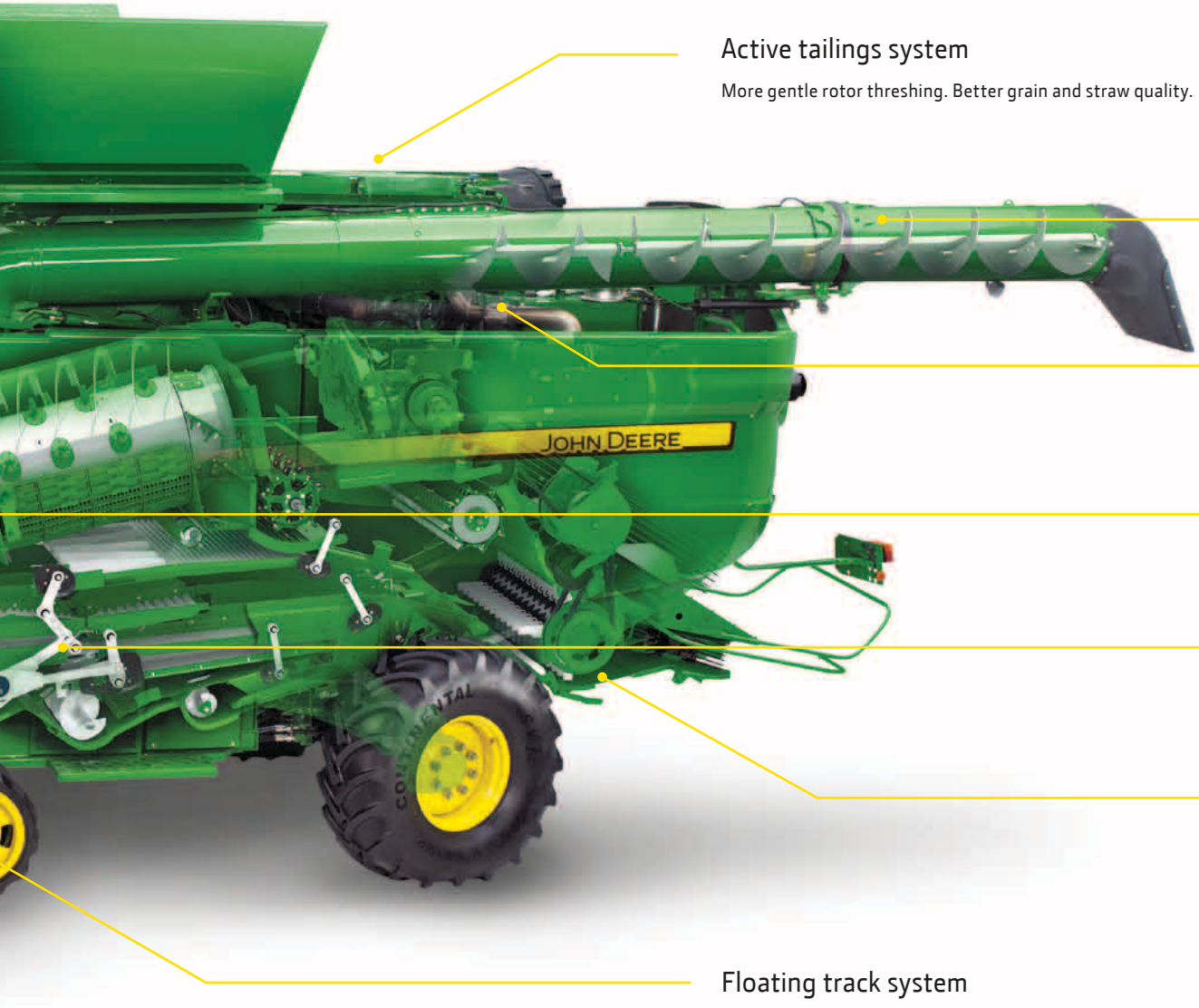
Wide range of headers

True multicrop performance.

Low angled feederhouse

Gently feeds crop to rotor for better straw and grain quality. Reduced power consumption.





Active tailings system

More gentle rotor threshing. Better grain and straw quality.

Large diameter unloading auger with 135 l/s

Gentle grain handling and more uptime.

Isochronous engine governor

Consistent cleaning whatever the throughput or combine speed.

NEW Active concave isolation

Higher throughput in tough crop conditions.

NEW EvenMax cleaning system

Improved side slope performance. Even lower losses.

Flexible residue management

Switch between chopping or dropping at the touch of a button.

Floating track system

Minimises soil compaction and tillage costs.

New four chain feederhouse

Higher throughput and smoother crop flow.

High performance headers.
Your profitability starts here.

STANDARD

600R

Standard small grain header

45 minute crop conversion

VERSATILE

600 PremiumFlow

Premium small grain header

15 minute crop conversion

*Some models not available in all countries.
Please check with your dealer for availability.

SPECIALIST

SMALL GRAIN

600D
Small Grain Specialist
(S-Series combines only)

900D
Great for medium-height straw

615P
Best choice for windrowing and swathing

ROW CROP

600F
Excellent in peas and beans

600C
High speed corn harvester

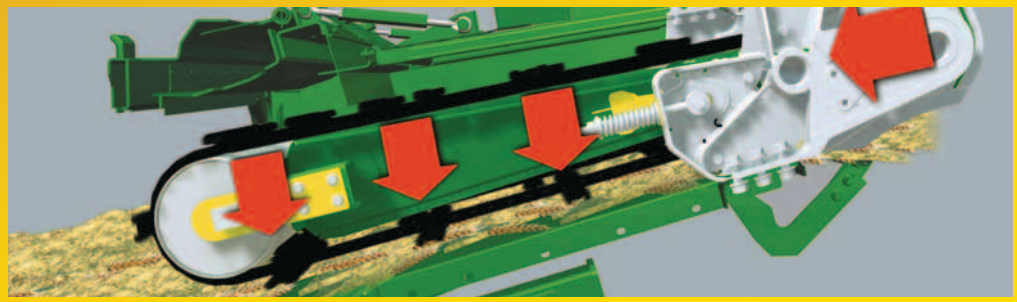
Optisun SH
Low loss, highly durable sunflower header

For additional information about our wide range of front end equipment ask your dealer for the John Deere header brochure.

Low power.
Even feeding.

The high capacity, self-levelling feederhouse is where excellent grain and straw quality begins. Thanks to the auger driven cleaning system, the feederhouse sits lower where it connects to the beater. This results in a shallow angle from the header to the combine for gentler crop feeding and better straw quality with reduced power. Its wide cross-section, low profile front roller and mid-point pivot means it will handle high yielding crops with ease.

The heavy duty design is the result of years of field testing and experience. Apart from excellent reliability it will also handle the widest headers with ease for maximum harvesting capability.



Faster harvesting
The self-levelling system allows the feederhouse and header to tilt up to 9 degrees side-to-side for better ground following.

Excellent visibility
The long feederhouse and low angle gives the operator a clear view of the header.

Rapid unblocking
In the unlikely event the feederhouse becomes blocked, the powerful reverser will get you harvesting again in moments.

Quick header hook-up
The multi-lever coupler connects all the hydraulics and electrics as well as the header latching pins with one operator movement.

High capacity
The wide cross-section and low profile roller increases throughput and the 4 chain feeder system handles dense, high yielding crops with ease.

Long-life design
The high torque slip clutch protects the 5-speed drive for a longer working life.

Single rotor.
Multiple tasks: threshing.

The single rotor is what makes the S-Series so unique. It gives you clear advantages over other, more traditional and hybrid systems:

It produces a single crop flow and its large diameter generates higher inertia enabling lower rotational speeds. The result? Better straw and grain quality. And, lower power consumption.

The large cross-section rotor also has more surface area. That means a large concave. Compared to a hybrid combine this gives you ~ 50 % more threshing capacity.

One combine. All crops.

It doesn't matter if you're harvesting large acreages of a single crop or moving from crop to crop the S-Series offers true multi-crop capability. Tested in 36 different crops, you can customise every single component from the header through to the rotor and residue management system.

Conversion from small grain to rapeseed can be done at the touch of a button. Changeover is fast and easy with excellent access to the rotor.

Progressive threshing

The thickness of the straw mat is reduced over the conical threshing area. In the front area the easiest to thresh grain is removed through gentle and efficient crop on crop threshing. In the rear part of the cone the remaining crop is threshed. This overall effect is very gentle threshing for the best possible grain quality and the highest power efficiency.

Replaceable threshing elements

The number and type of threshing elements can be changed for different crops and conditions. Simply lift the side panel for easy access to the rotor and unbolt or bolt on additional elements as required.

Even feeding

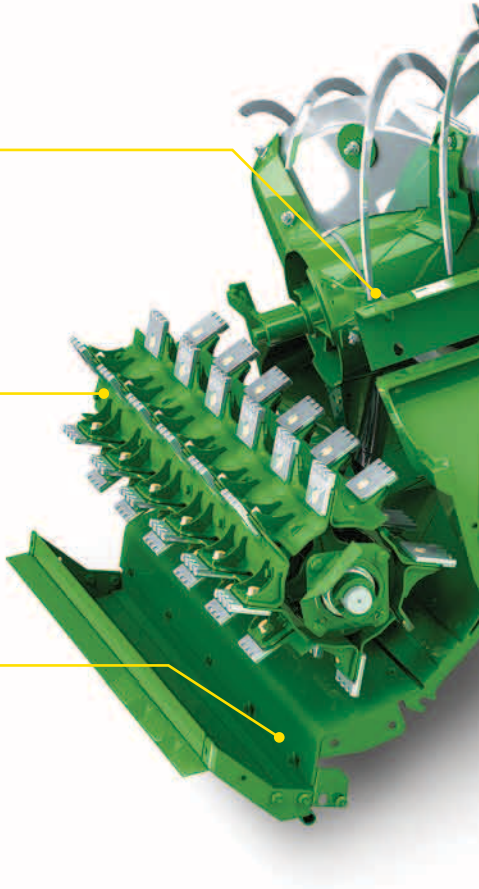
The crop is divided into 3 equal streams for balanced loading of the rotor. This maximises the capacity of the rotor. It also preserves straw quality as it prevents crop building up in one part of the rotor with potential damage to the stalks.

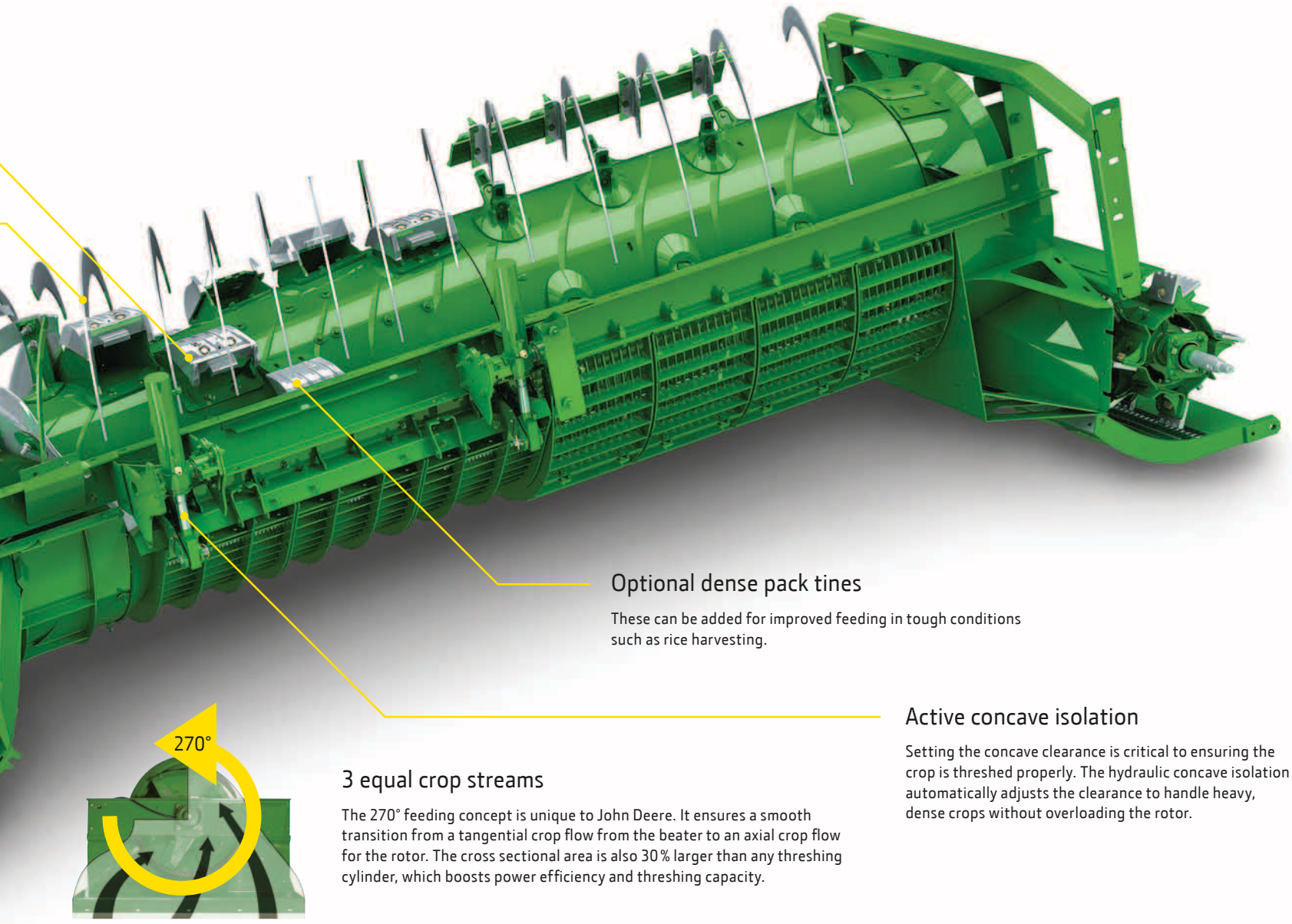
High capacity feeding

The 8 wing beater improves feeding, reduces noise levels and lowers power consumption. Different elements can be fitted to the beater to suit drifferent crops and conditions.

Effective stone protection

Large stones simply fall into the Feed Accelerator Stone Trap (FAST) before they can enter the machine and cause any damage.





Optional dense pack tines

These can be added for improved feeding in tough conditions such as rice harvesting.

Tristream rotor not available in UK & Ireland.

3 equal crop streams

The 270° feeding concept is unique to John Deere. It ensures a smooth transition from a tangential crop flow from the beater to an axial crop flow for the rotor. The cross sectional area is also 30 % larger than any threshing cylinder, which boosts power efficiency and threshing capacity.

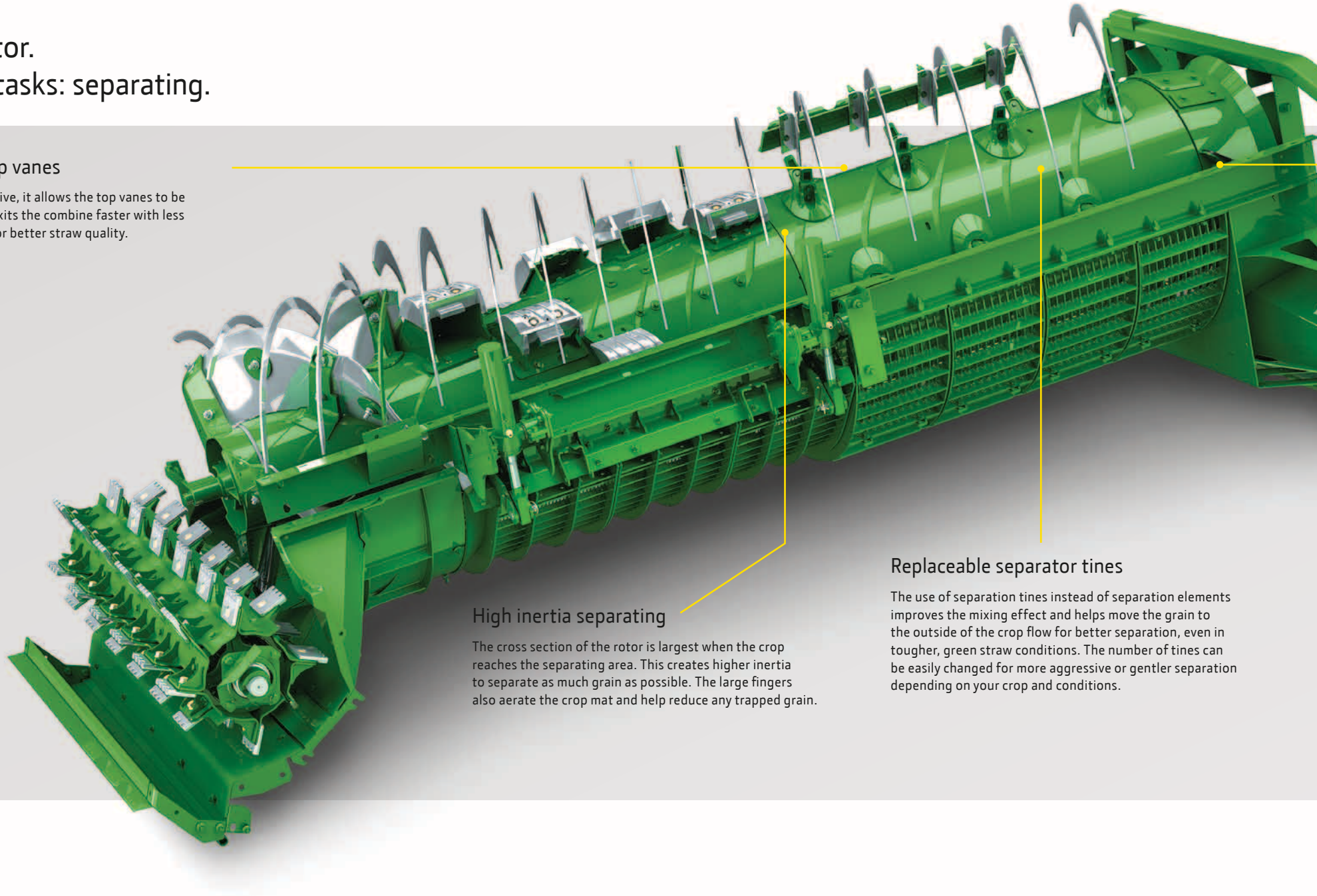
Active concave isolation

Setting the concave clearance is critical to ensuring the crop is threshed properly. The hydraulic concave isolation automatically adjusts the clearance to handle heavy, dense crops without overloading the rotor.

Single rotor.
Multiple tasks: separating.

Adjustable top vanes

A John Deere exclusive, it allows the top vanes to be adjusted so straw exits the combine faster with less turns of the rotor for better straw quality.



High inertia separating

The cross section of the rotor is largest when the crop reaches the separating area. This creates higher inertia to separate as much grain as possible. The large fingers also aerate the crop mat and help reduce any trapped grain.

Replaceable separator tines

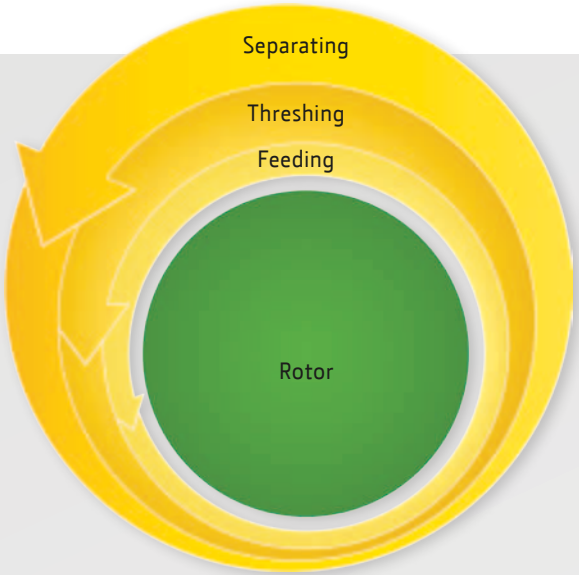
The use of separation tines instead of separation elements improves the mixing effect and helps move the grain to the outside of the crop flow for better separation, even in tougher, green straw conditions. The number of tines can be easily changed for more aggressive or gentler separation depending on your crop and conditions.

Low energy discharge

The tapered rear cone allows material to expand before it is discharged through the new 8-wing discharge beater. This improves power efficiency and straw quality.

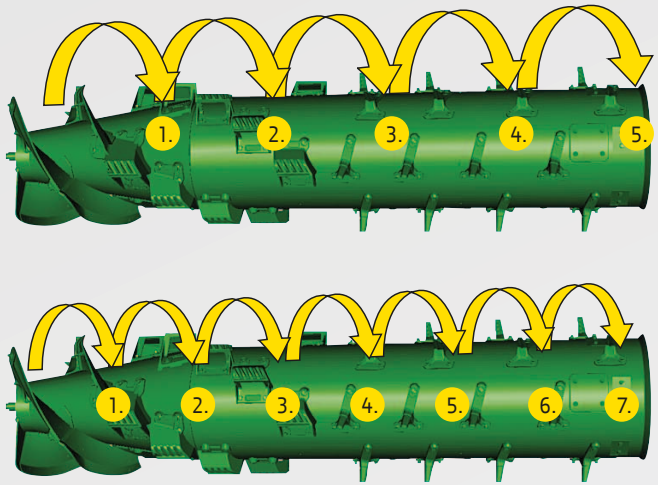
Even chopper feeding

The discharge beater pulls crop out of the rotor instead of chopper which preserves the stalks. The impellers provide even distribution of the crop to avoid plugging and feed the entire width of the chopper. This ensures lower knife wear, better chopping quality and more efficient distribution.



‘Pull and release’ threshing and separating

The off centre rotor creates a ‘pull and release’ effect with the crop compressed at the bottom as it passes the grates and is then released as it moves towards the top of the rotor. This produces a mixing effect which moves the grain to the outside of the crop flow where it is separated through the grates far more efficiently.



Reduced rotor turns. Better straw quality

They are the only way to change the crop flow while harvesting which is on the market. The operator can choose between two settings. In the standard position the crop makes 7 full rotations for higher separation. However, if the operator wants to improve straw quality or reduce chaff load on the cleaning shoe, he can switch to the advanced position. In this position the straw exits the rotor after only 5 rotations.

Better residue management. More value.

With our flexible residue management options you'll get more value from your harvest with better quality bales and reduced tillage. Choose from Premium, Intermediate and Deluxe chopping systems for the combination that suits you.

Our Premium and Intermediate systems are equipped with a 100 knife, ultra fine chopper, and with wide spreading it ensures faster decomposition, often eliminating the need for fungicidal treatments.

Our Premium system also let's you switch from dropping to chopping at the touch of a button. Unique on the market it's a real time-saver that soon pays for itself. If you are harvesting along the edge of a field, for instance, where the stalks are greener you can switch to chopping without stopping and avoid bales being produced with poorer quality straw.

	Deluxe	Intermediate	Premium
Chopper type	Fine cut	Extra fine cut	Extra fine cut
Knives/Counter knives	44/39	100/49	100/49
Chopper rpm	2500	3000	3000
Electronically adjustable vane tailboard	Option	●	●
Power Cast	Option	X	X
Advanced Power Cast	X	Option	Option
Overshot beater with straw slide	X	X	●
Chop to drop	X	X	●

Deluxe

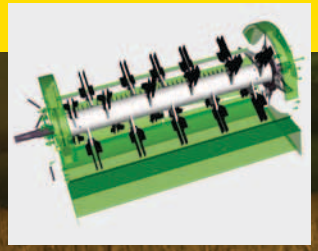
- 44 knife chopping system.
- 3–5 minute conversion time between chopping and dropping.
- Chaff enters chopper and drops into windrow.
- Chops well in dry straw.
- Electronic vane tailboard is ideal for harvesting on slopes or in conditions with strong cross winds and spreads the residue up to 9 m.

Intermediate

- 100 knife chopper produces the smallest residue size on the market.
- 3–5 minute conversion time between chopping and dropping.
- Lower power requirement than Premium as no overshot beater.
- Optional Advanced Power Cast tailboard spreads residue up to 18 m.

Premium

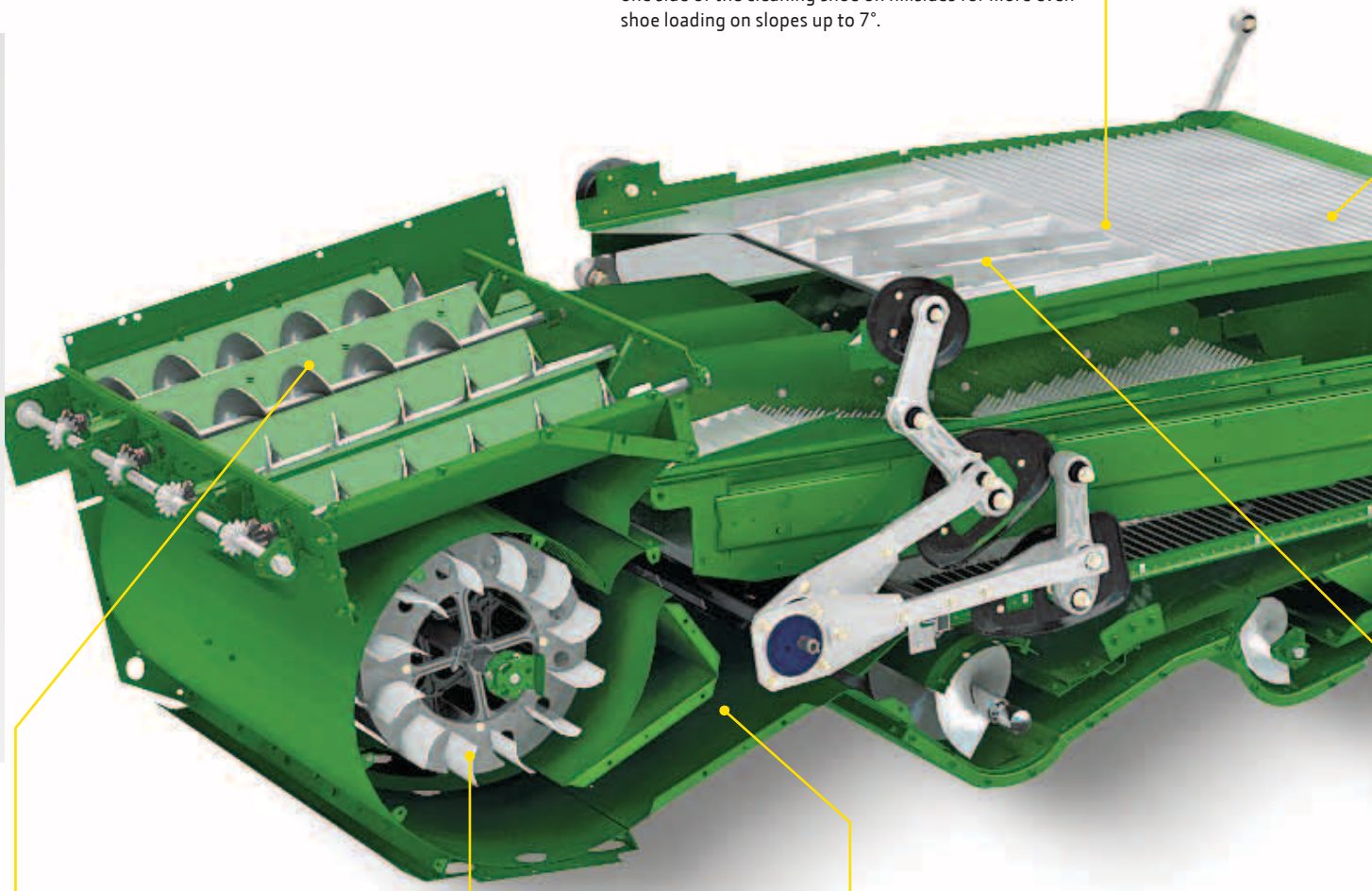
- 100 knife chopper produces the smallest residue size on the market.
- Chop to Drop – switch from chopping straw to dropping windrows at the touch of a button.
- Overshot beater blows chaff to the side of the chopper, away from the windrow, for cleaner bales.
- Optional Advanced Power Cast tailboard spreads residue up to 18 m.



EvenMax high efficiency cleaning. Better grain quality.

The efficiency of grain cleaning is not just about the surface area of the system. It's also about how it's used. Our EvenMax cleaning shoe doesn't just use high velocity air to clean large volumes of crop. It also distributes the crop evenly for more efficient cleaning at higher crop volumes.

What's more it's a versatile performer. The use of augers to transport the crop reduce sensitivity to slopes. So you'll find it works equally well uphill or downhill and will perform on hillsides up to 7°.



Less slope sensitivity

The dividers on the chaffer prevent crop from moving to one side of the cleaning shoe on hillsides for more even shoe loading on slopes up to 7°.

Even feeding

80 % of the grain is fed into the 4 augers. The use of augers reduces sensitivity to slopes and ensures even feeding in difficult crops such as wet rape. They're also self-cleaning which reduces maintenance.

Even cleaning

The isochronous governor on the engine ensures an even fan speed for consistent cleaning whatever the throughput or combine speed.

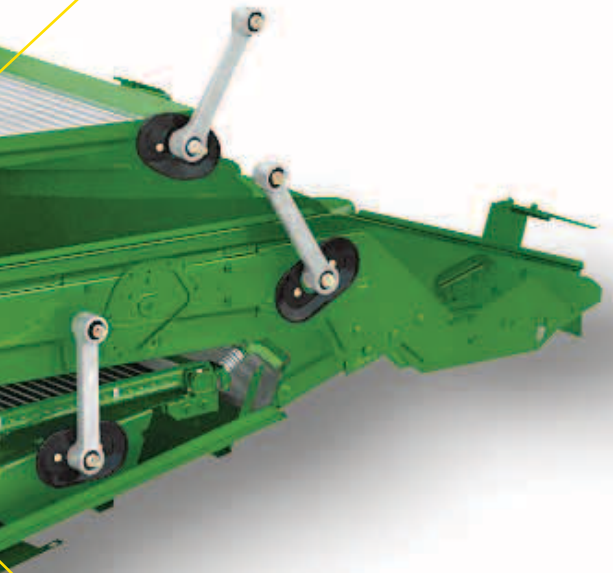
Maximum air flow

The fan blows high velocity air under the pre-chaffer which blows any chaff and lighter material directly out of the machine and pre-cleans up to 50 % of the grain so the rest of the cleaning system works more efficiently. Secondly, the maximum volume airstream is directed at the sieve and chaffer to ensure efficient cleaning for a clean sample.

Active tailing management. Increased capacity.

High capacity

The large rear chaffer and bigger sieve are designed to handle large crop volumes.



Split Chaffer

The front part of the chaffer is electrically adjustable and is usually set aggressively to utilise the high air pressure and volume of the fan. The rear part, where the air pressure and volume is lower, is typically opened less which helps reduce tailings.

Powerful threshing

The additional threshing system is equipped with rasp bars.

Protects grain quality

The rubber elevator minimises steel on crop contact, reduces broken kernels and maintains grain quality.

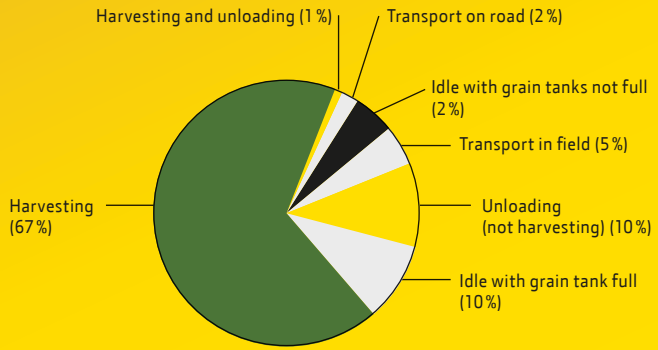
Even loading

The grain is distributed evenly across the full width of the cleaning shoe for better loading and higher power efficiency.

The higher capacity S680, S685 and S690 combines are equipped with an active tailing system which returns tailings across the entire width of the chaffer. Unlike many other systems, which return tailings to the separator, this takes additional load off the rotor. It means the operator can maintain a lower rotor speed and the concave clearance can be opened to improve straw quality if needed without affecting the threshing. It also means the lower chaffer can be opened further, increasing shoe capacity and improving fuel efficiency.

Large grain tank.
More uptime.

Better grain handling is one of the most important areas where you can make improvements in harvesting efficiency. Typically combines spend up to 20 % of their operating hours waiting to unload.



The S-Series is designed with a 14100 l grain tank so you can harvest for longer periods before unloading. It has a fast unloading speed and the engine power boost means you can unload without stopping. It all adds up to more uptime and more tonnes per hour. An important consideration with tight harvesting windows and unpredictable weather.

High capacity elevator

Up to 176 t/hr. It's also designed to move grain on grain and reduce contact with steel for better grain quality.

Large grain tank

The S680, S685 and S690 are equipped with a 14100 l grain tank so there's longer intervals between unloading.

Uninterrupted harvesting

The engine provides an additional power boost of up to 50 hp when unloading so you can carry on harvesting without stopping.

Reduced soil compaction

Using AutoTrac you can set up your harvesting operation for Controlled Traffic Farming (CTF). This ensures all machines follow permanent traffic lanes and reduces soil compaction from ~75 % of the field area to ~15 %.

Better grain quality

The large, 429 mm diameter auger reduces grain on steel contact for fewer cracked kernels.

Excellent manœuvrability

There's a choice of augers from 5.6 m up to 8.7 m with automatic folding options for better manœuvrability on the road or at the headland.

Fast unloading

With a fast unloading auger, 135 l/s (measured to the international standard ISO 5687:1999) you'll empty a full tank in just 105 seconds!

Safe unloading on-the-go

MachineSync lets the combine operator take control of the tractor and grain trailer. The trailer is automatically speed matched to the combine and is steered parallel for fast and safe unloading.

Extreme slopes.
Without compromise.

The S-Series is the only high capacity combine on the market designed to perform as well on extreme slopes as it does on level fields. It brings together all of our experience of slope harvesting systems that began with the Model 36 way back in 1935.

Slopes up to 7 %

The Even Max cleaning system is designed to minimise the effect of gentle slopes. The 4 augers channel the grain into the cleaning shoe for more even feeding and the chaff dividers prevent grain building up on one side of the cleaning shoe.

Slopes up to 15 %

Our Hillmaster technology is the most effective and efficient combine levelling system available. Hydraulic cylinders under the axles level the whole combine for a more comfortable ride and maximum 'on the level' performance up to 15 % without compromise.

The HillMaster advantage

Easy to operate

Push button control on the CommandTouch armrest to engage or disengage.

Better comfort

The operator always sits on a level seat.

More uptime

Full capacity of grain tank is utilised so fewer stoppages.

Maximum yield

The threshing, separating and cleaning systems perform as if the combine is on level ground.

Excellent traction

Even weight distribution for maximum traction on slopes.

Even crop flow

The front feederhouse pivots up to ± 9° for better straw quality and more balanced feeding.

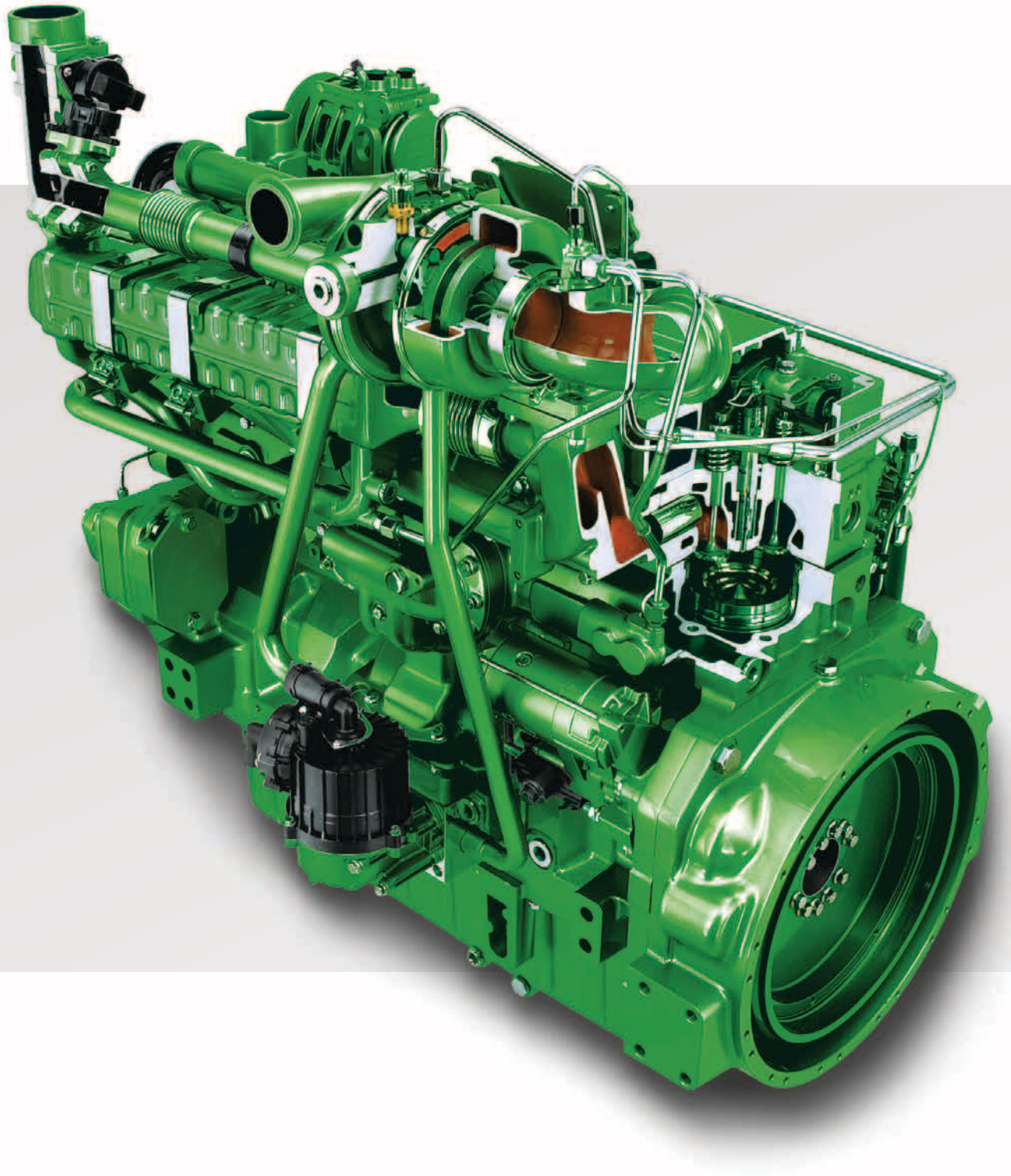
Pure John Deere power. Built for one purpose.

All our combine engines are designed and built by us specifically for agricultural use. Unlike truck engines which are engineered to run at constant rpm for motorway cruising, our engines have stronger casings and bearings to meet the unique and sudden power demands associated with different harvest conditions. We've made more than 7 million off-road engines, so you can be sure your S-Series engine is perfectly balanced for harvesting efficiency and longer life.

We also use the same engine design across all our machines. That means common parts stocking at your dealership for better availability and technicians who are highly knowledgeable, for reliable and rapid servicing.

To meet Stage IV emission regulations our 9 litre litre engines (S660 & S670) are now equipped with Selective Catalytic Reduction (SCR) and Diesel Exhaust Fluid (DEF) systems and require AdBlue. Our larger, 13.5 litre engines (S680 & S690), remain DieselOnly.

Extra power. Extra productivity.
All engines feature John Deere's unique Extra Power, which increases engine power as the engine speed reduces under harvesting load. This means you can harvest on-the-limit without any concerns that the engine will stall. You also get a power boost at rated rpm so you can continue to harvest while you're unloading without having to slow down.



Precision speed control. Better fuel economy.

ProDrive gives you precise control of your ground speed across two infinitely variable speed ranges. You simply set one range for your typical harvesting speed and the other for transport. All you then have to do is press the button for your chosen range and control the combine's speed within that range by pushing and pulling the hydro lever. There's no need to stop to change gear.

ProDrive also saves you money. Engine Speed Management automatically controls the engine's rpm during road transport. The result is fuel savings of 10 to 20 %.

Our 3-speed push button transmission is a simpler and less versatile alternative to ProDrive. With the combine stationary, the operator selects the gear they need by pushing one of three buttons on the armrest.

The ProDrive advantage

Seamless shifting
When the ground conditions change you simply switch between ranges at the push of a button

Saves harvest time
You'll no longer have to stop to change gear on headlands, hills and slopes or when exiting fields. If you save just 3 seconds per headland turn, depending on your operation, this can easily add up to 2 hours more harvesting time per season!

Easier header attachment
ProDrive gives you more precise control for operations where you need precise control, such as hooking up a header

Extra torque
When you need more grip you can rely on 95 % more torque at 6.5 km/hr, 64 % more torque across the range

Outstanding traction
If the going gets tough in muddy or soft soils, simply engage the 4-pinion, electro-hydraulic differential lock

Maximum traction.
All conditions.

John Deere tracks are the only truly floating track system on the market. This spreads the load evenly over all five traction wheels. So, in challenging conditions, you're still harvesting when others have stopped. It's a big advantage when the weather is unpredictable and the harvesting window is short.

The closed loop hydraulic system also means power is delivered smoothly and evenly. It helps minimise any potential soil damage and ensures excellent traction, even at low speeds.

Thanks to the narrower body of the S-Series we were able to build tracks that are shorter, but wider. This gives you an extra large footprint for maximum traction and it spreads the load across a wider area. So you'll also enjoy lower soil compaction and avoid the additional cost of deep tillage. The shorter track length also has the added advantage of reducing soil damage at headlands.

Excellent traction

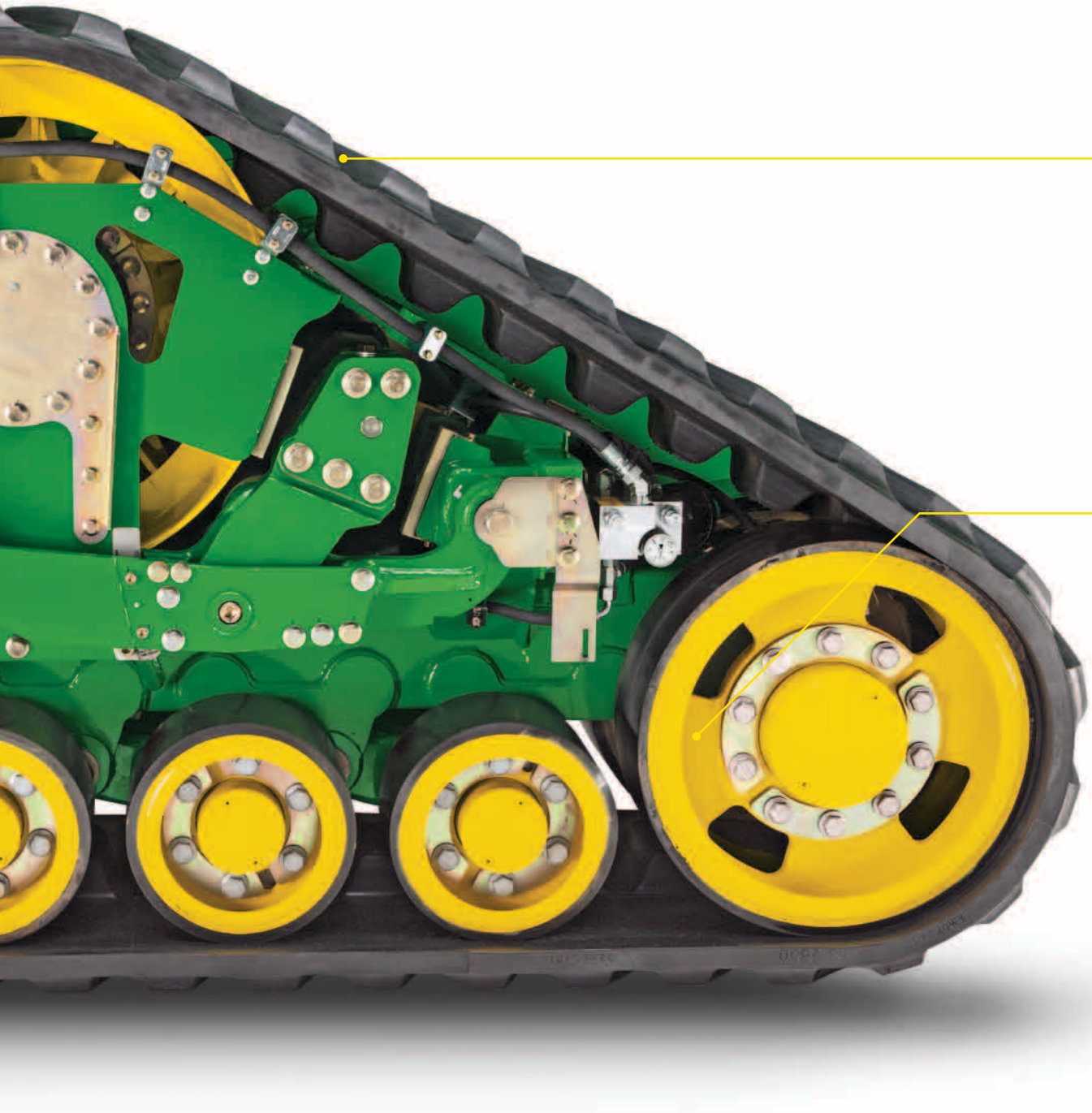
Our tracks are equipped with a positive drive system and do not rely on friction like others. Add to this our Camoplast belt with optimised tread pattern and you'll enjoy better traction in muddy and wet conditions.

Smooth transport

The hydro-pneumatic suspension cushions dynamic loads so you won't feel the road when travelling at high speeds between fields.

Low compaction

With a massive 1.18 m² of contact area per side, the advantages of tracks over tyres are easy to see. You'll be able to keep harvesting in wet conditions when conventional wheel driven machines have long stopped.



Longer belt life

The positive drive system ensures even tension and reduced slippage for improved comfort and longer belt life.

Even loading

The rollers and central carriage mechanism are independently suspended for more even loading across the entire area of the track that's in contact with the ground.

First class comfort.
Efficient work space.

When the average operator spends 250 hours a year in the cab, you need a comfortable and efficient workspace

Anti-glare screen

The front screen has been designed to minimise reflection, giving you clear visibility of the crop and header at night and in rainy conditions.

Better visibility

Slim cornerposts minimise any obstructions and taller glass side panels give better visibility for trailer loading.

Instructor seat

Conveniently placed for operator training, the seat folds up to create a work space.

Chilled food & drink

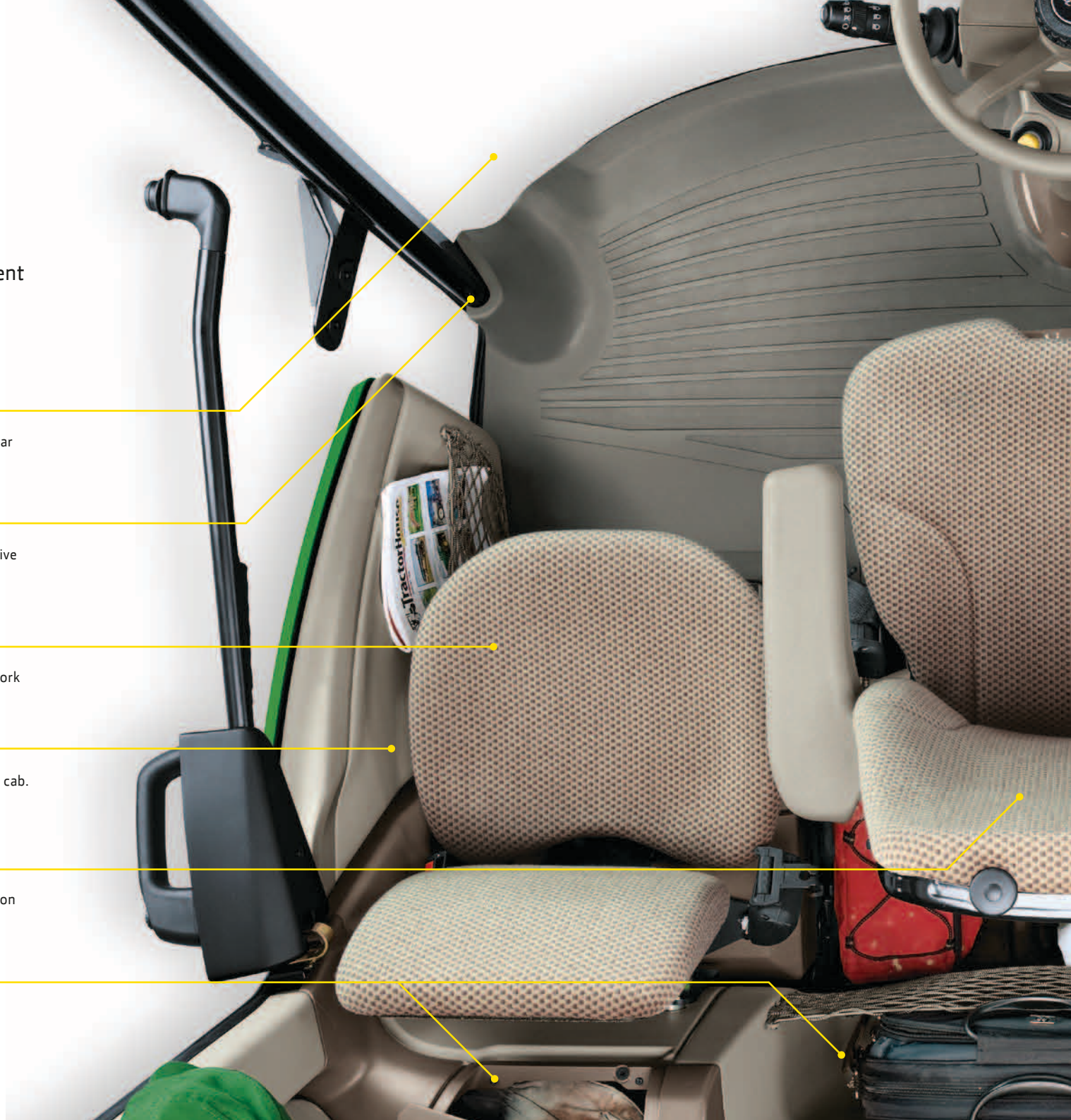
The large, refrigerated compartment is essential for long, hot days in the cab.

One of the best seats on the market

Riding on our Super Air Comfort Seat is like floating on air. An active carbon layer absorbs perspiration, keeping you cool all day.

Handy storage

There are plenty of areas to store all your personal and work items.



Central information display

The cornerpost display has all the main machine operating information including ground speed, engine rpm, tonnes per hour, etc.

A full colour touch screen display which integrates all machine data onto one screen is available. It can also be moved from machine to machine for operations such as AutoTrac.

One-handed control

All the key harvester controls, ground speed, grain tank unloading can be controlled from the multi-function lever.

Optimum driving position

The seat is placed in the centre of the cab and the steering column pivots in two places so you can obtain the optimum driving position.

Ergonomic control console

Programmable keys for repeatable tasks and all the main switches and controls are conveniently placed on the CommandARM which moves with the seat. The controls share the same layout as John Deere tractors so operators can move from machine to machine without any training.

Automatic air conditioning

Adjustable from the CommandARM you set your ideal temperature.

Plenty of power

A series of 12V sockets let you charge all your phones, tablets and other electrical items.

Bluetooth connectivity

Connect your devices to the audio system for hands-free calling or playback.

Logical layout.
Easy to use controls.

The benefit of developing our own electronics and control systems is clear to see. Everything is logically positioned and fully integrated.

The CommandTouch armrest moves with you. So once you've found your ideal seating position, all the controls are just where you need them.

And, if you drive any other John Deere machines, you'll be familiar with the layout. That's because we've developed consistent controls across all our machines so you can switch from combine...to tractor...to sprayer...in minutes.

1 One handed control

The master control integrates all the main functions for the header and feederhouse, as well as giving you exceptionally smooth hydrostatic speed control. It also includes start/stop control for AutoTrac guidance.

2 Logically grouped controls

The CommandARM console includes all the controls for the radio, air conditioning and lighting. There are also programmable hot keys for commonly used adjustments which makes it easy to set up the combine for your individual preferences.

One single view. Touch control.

3 Performance data display

The cornerpost display gives you a clear overview of all primary information such as forward speed, engine rpm, losses and alerts. This is permanently displayed for clarity and avoids the need to navigate through multiple menus to get what you want.

4 Information and control display

The GreenStar 3 CommandCentre display brings together all the vital adjustment functions and operating data. The simple to use interface lets you quickly get to what you want to for faster set up and easier control. Functions include Interactive Combine Adjust (ICA), Harvest Monitor, automatic feedrate control, AutoTrac, AutoTrac RowSense and more. You can also use it as a video display for remote cameras. For even easier use a touch screen upgrade is also available.

Add the 26 cm touchscreen GreenStar 3 2630 display and operating your combine becomes even easier.

Specially developed to withstand agricultural use it's bright screen and user friendly interface is easy to use. You'll find everything you need is fully integrated from our unique Interactive Combine Adjust to guidance systems and documentation. Data e.g. setup files or yield maps can be wirelessly sent from and to MyJohnDeere.com.

What's more the display is detachable, so when you're not harvesting you can use it on another machines in your fleet with applications such as ISOBUS implement control, AutoTrac and iTEC Pro for tractors and John Deere Section Control for sprayers.

Optimum performance. Guaranteed.

John Deere was the first agricultural equipment company to develop satellite yield mapping. We were the first company to develop fully integrated CANbus control systems. And, we were the first company to develop the rotor combine.

We've taken all that technical expertise and added all our customer and test data from developing combines that harvest half the world's grain to bring you Interactive Combine Adjust (ICA).

ICA is a powerful performance optimisation tool that supports experienced operators and helps less experienced operators choose the optimum harvest settings. It takes information from all the combine's main sensors including mass flow, returns, engine load and the hydraulic rotor. Using a complex algorithm it then suggests optimum settings based on your harvesting priority.

Set up is quick and easy using the touch screen display.

And, with John Deere Remote Display Access you can call up your dealer remotely in the field to help advise on the best settings to match your conditions.

Choose your harvest priority
Simply scroll the menu options to prioritise what's important to you for your harvesting.

Custom optimisation
Individual areas of the combine can be optimised.

Stay in control
Real-time infographics show performance in all the key areas for better decision-making.

The ConnectedCombine. Always online.

The S-Series is more than a high performance harvesting machine in the field. It's constantly connected via satellite and cellular technology, enabling remote machine monitoring, diagnosis, wireless data transfer and two-way communication.

GreenStar

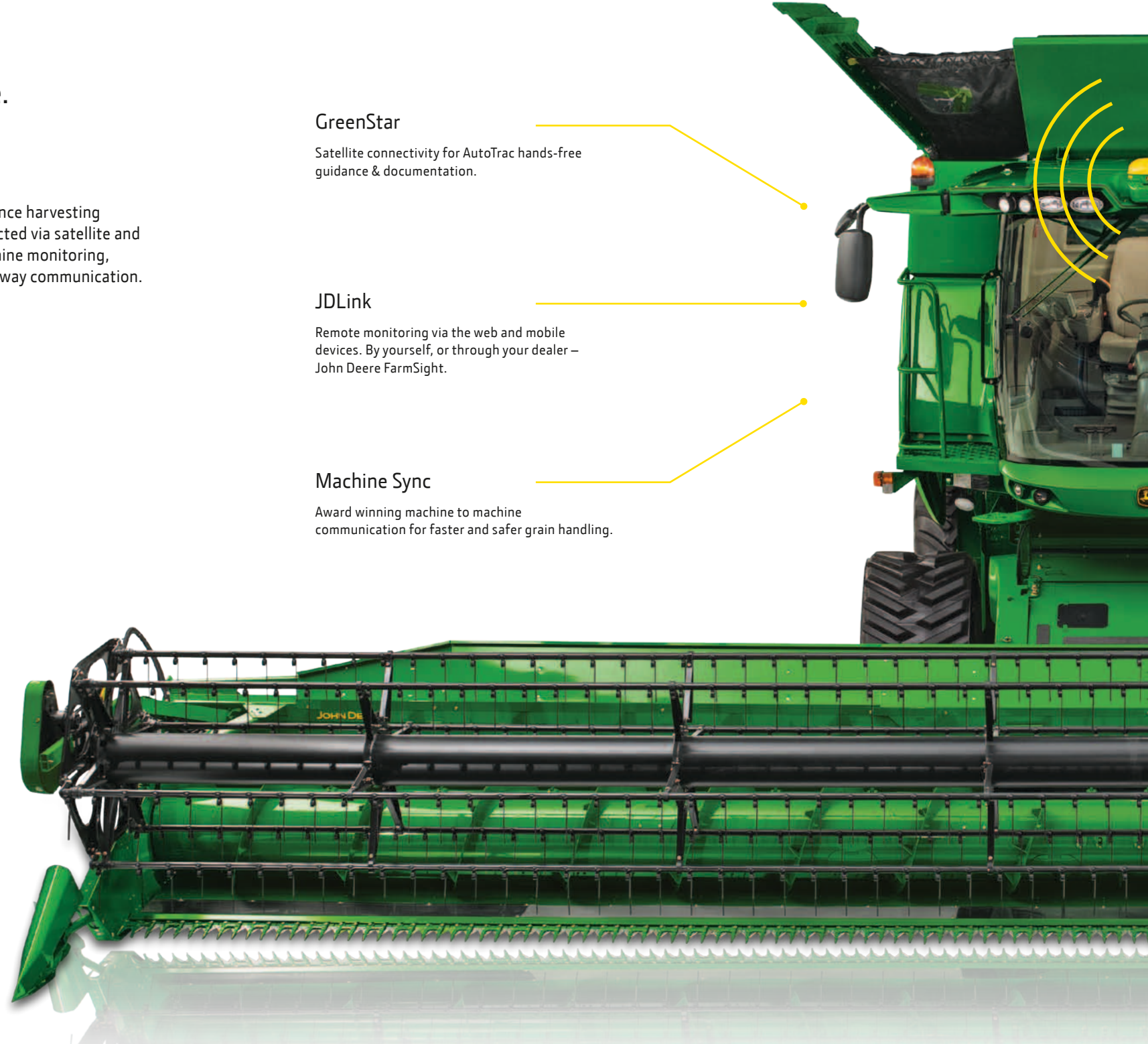
Satellite connectivity for AutoTrac hands-free guidance & documentation.

JDLink

Remote monitoring via the web and mobile devices. By yourself, or through your dealer – John Deere FarmSight.

Machine Sync

Award winning machine to machine communication for faster and safer grain handling.



Service ADVISOR Remote

Machine diagnoctics through your John Deere dealer for preventative maintenance and better uptime.

John Deere Remote Display Access

View the GreenStar 2630 in the cab from your office for assistance with setup and machine operation and operator training.

John Deere Wireless Data Transfer

Connecting via Wireless Data Transfer obviates the hassle of using USBs, and means that the field information will be home before the operator.

MyJohnDeere.com

A single portal to manage machines and crop analysis – also your gateway to JDLink machine performance data.

Harvesting data. Analysing performance.

With every turn of the rotor the S-Series harvests data. Sensors weigh each kernel of grain, satellite navigation plots its position and easy to use software gives you powerful business insights.

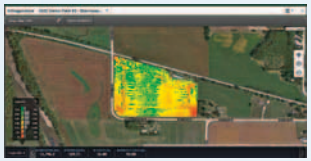
All our tools share the same control systems and user interfaces from combine to tractor to sprayer. This gives you ease of operation when switching from one machine to another. It also gives you a single view of your farming operation from tillage and seeding right through to spraying and harvesting.

Instant reporting. Actionable information.

JDLink gives you valuable machine reports which can help increase your combine's performance and improve your harvest profitability. Your dealer can receive alerts to identify any issues as soon as they happen, or they can provide a comprehensive monitoring service via John Deere FarmSight.

Now, with your permission, your dealer can remotely view your screen. It's like having your own online helpdesk with advice on settings, machine codes and harvesting optimisation.

The ConnectedCombine



MyJohnDeere.com

MyJohnDeere brings your equipment and field data all together in one place, accessible from any device. And with John Deere Wireless Data Transfer your combine can safely and securely send or receive data in real-time such as yield maps – without using a USB flash drive.

JDLink

JDLink gives you the freedom to remotely manage your equipment wherever you are. Monitor machine hours, plan maintenance, improve fuel efficiency and harvesting logistics. And, with your permission, your dealer can utlilise the JDLink infrastructure to carry out remote diagnostics and controller re-programming.

AutoTrac

AutoTrac hands-free guidance ensures you get a full header width with every pass. It also means you can harvest at higher speeds in greater comfort.
The bottom line is you'll cut more hectares in a day and get more grain in your tank.

HarvestSmart

HarvestSmart automatically adjusts the combine's speed to deliver a constant crop federate for optimum efficiency. It's particularly useful when harvesting on hilly terrain, varying crop densities and changing field conditions.

John Deere Machine Sync

Maximise harvest productivity through unloading on-the-go and optimise in-field logistics utilising John Deere Machine Sync. By synchronising combine and tractor/trailer speed and driving directions it enables you to keep a set distance between both vehicles and ensures an even grain cart fill while the combine maintains harvesting speed.

Documentation

Powerful documentation software collects and stores essential harvest and field data. Transfer the data to your MyJohnDeere account to get a quick overview of your harvesting operations (view yield maps etc.), to your desktop software for a more detailed analysis and profit from information enabled decision making and accurate cost control.

The true harvesting partner. Comprehensive support.

When you invest in the S-Series 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.

We're there from the day you take delivery with a special programme to make sure you get the most from your combine from the very start.

Operator Pack

Full PDI & Field Ready Machine

Operator Training

1st Day Support

Conversion Support

1st Day Support

1st Week Revisit

Delivery

Small Grain Season

Large Grain Season

First year support

Support Services

PowerGard service plans
Using only genuine components, lubricants and coolants a PowerGard service plan maximises your combine's uptime and resale value. Choose from 3 plans: PowerGard Maintenance, PowerGard Protection and PowerGard Protection Plus.

Service ADVISOR Remote
Time saving remote diagnostics for combines equipped with JDLink.

John Deere Remote Display Access
Your dealer can view your combine screen in real time to help operators optimise performance.

Parts logistic network
Our European supply network holds more than 375,000 parts from a 12 m auger to a chopper knife – all ready for next day delivery.

JDParts online
Open 24/7, 365 days a year you can check dealer stock, pricing and order online for delivery to your dealer.

John Deere FarmSight
Remote monitoring service packages designed to improve your business profitability.

Customer clinics & training
Regular clinics with tips and advice by factory trained specialists ensure you get more from your combine.

Winter inspection
Our comprehensive 180 winter inspection will keep your combine running as good as the day it left the factory.

Extended harvest opening hours
During the harvest season your dealership is open later.

Ongoing support

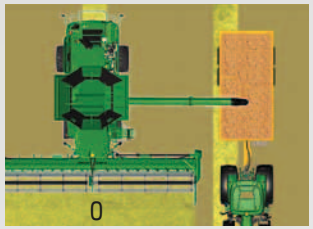
Specification

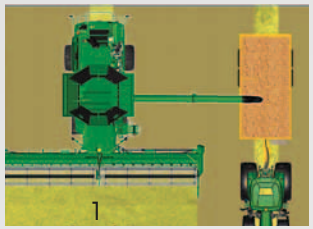
	S670	S680	S685	S690
Feeding				
Four-Strand feederhouse	Base (not on HM)	Base (not on HM)	Base (not on HM)	Base (not on HM)
Fixed feederhouse speed	Base	Base	Base	Base
Variable feederhouse speed	Optional	Not available	Not available	Not available
Heavy Duty 5-Speed feederhouse	Optional	Optional	Optional	Optional
Lateral tilt feederhouse	Base	Base	Base	Base
Heavy Duty cast iron conveyor chain slats	Base	Base	Base	Base
Width, mm	1397	1397	1397	1397
Length, mm	1727	1727	1727	1727
FAST Beater (Feed Accelerator cylinder with Stone Trap)	Base	Base	Base	Base
FAST beater speed, rpm	500/1000	500/1000	500/1000	500/1000
Reverser	Base	Base	Base	Base
Threshing and Separation				
Variable Stream Rotor with long front cone, rear cone, actively adjustable crop flow in separator	Optional	Optional	Optional	Optional
Rotor Length, mm	3124	3124	3124	3124
Rotor Diameter, mm	762	762	762	762
Rotor speed ranges, rpm	210–550/380–1000	210–550/380–1000	210–550/380–1000	210–550/380–1000
Threshing area, m^2	1.1	1.1	1.1	1.1
Separation area, m^2	1.54	1.54	1.54	1.54
Discharge beater grate, m^2	0.36	0.45	0.45	0.45
Cleaning				
EvenMax Cleaning sytem	Base	Base	Base	Base
Active tailings return with additional 399 mm beater for increased throughputs at high threshing intensities	Not available	Base	Base	Base
Fan speed, rpm	620–1350	620–1350	620–1350	620–1350
Straw Management				
Premium residue with overshot beater, remote chop to drop door, extra fine cut chopper with 100 knives and electric vane tailboard	Optional	Optional	Optional	Optional
Advanced Power Cast active spreader (with Intermediate Residue & Premium residue)	Optional	Optional	Optional	Optional
Grain handling				
Volume, l	10,600	14,100 (HM 10,600)	14,100 (HM 10,600)	14.100 (HM 10,600)
Unload rate, l/sec	120	135 (120 for HillMaster)	135 (120 for HillMaster)	135 (120 for HillMaster)
Engine				
Type	John Deere PowerTech PSS Engine, 6 Cylinder, twin turbo charger with fully automatic EGR technology			
Engine Tier Level	Stage IV	Stage III B	Stage III B	Stage III B
Displacement, l	9	13.5	13.5	13.5
fuel tank, l	750–950	750–1250	750–1250	750–1250
Cooling	Air-to air-aftercooler	Air-to air-aftercooler	Air-to air-aftercooler	Air-to air-aftercooler
Rated speed, U/min	2200	2100	2100	2100
Rated power ECE R120, KW/hp/PS	292/392/397	353/473/480	373/500/507	405/543/551
Max Power ECE R120, KW/hp/PS	335/449/455*	402/540/547	426/571/579	460/617/625
Boost, kW/hp/PS	25/34/34	37/50/50	37/50/50	37/50/50
Ground drive				
3 speed electric Push Button Shift Transmission	Base	Not available	Not available	Not available
ProDrive transmission	Optional	Base	Base	Base
John Deere Tracks, fully suspended with equal load distribution system and positive drive	Optional	Optional	Optional	Optional
HillMaster option including HillMaster feederhouse	Optional	Optional	Optional	Optional

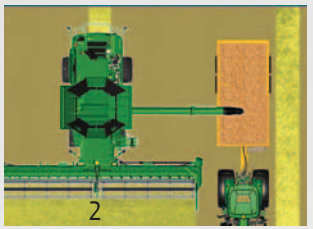
*Max enginer power of S670 is managed via ECU timer

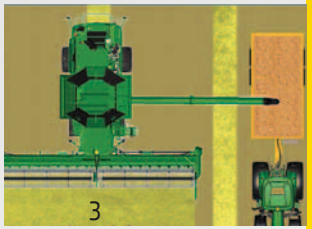
Unloading auger compatibility

HEADER		AUGER			
		5.6 m	6.9 m	7.9 m*	8.7 m
620R/ 620 PremiumFlow/ 620F	6.10	1	0	0	3
622R/ 622 PremiumFlow/ 622F	6.70	1	0	0	3
625R/ 625 PremiumFlow/ 625D/ 625F	7.60	0	1	1	0
630R/ 630 PremiumFlow/ 630D/ 630F	9.15	2	0	0	1
635R/ 635 PremiumFlow/ 635D/ 635F	10.70	not compatible	2	2	2
640 PremiumFlow/ 640D	12.20	not compatible	not compatible	2	2









Our wide range of augers give you complete flexibility depending on the size of your header and your preferred unloading operation.

0 Running on windrow
This is only recommended if you chop all your residue, otherwise you will damage the straw with the tractor's wheels.

1 Running over windrow
This is a more complex configuration with the windrow passing between the tractor's wheels.

2 Running inside windrow
A more common configuration with larger headers.

3 Running outside windrow
Only for the longest, 8.7 m auger.

*folding version available

100 Years Of Harvest Innovation

Owning an S-Series combine doesn't just give you high capacity and outstanding reliability. You also get the knowledge and experience of more than 100 years of innovation.

1910

Early steps

John Deere moves into harvesting with its own grain binder. This horse drawn implement tied the cut stems into bunches for threshing.

1927

First true combine

The No.2 combine was first machine to harvest and thresh in one operation. Costing approximately €1500, it unloaded grain at 21 l/s.

1935

Slope capability

The model 36 was the first John Deere combine designed for extreme slopes. It proved an instant hit and would stay in production until 1951.

1939

Popularity grows

The 12A & 12B introduced. The 12A goes on to become our most popular PTO driven model with more than 116,000 sold up until 1952.

1947

First self-propelled

The model 55 was also the first combine to centre the operator on top of the machine, with the grain tank and engine located behind.

1957

Higher capacity

The drive for higher capacity started with the model 95. The largest self-propelled combine at the time, more than 39,000 were sold.

1964

European production

Combine production begins at John Deere's Zweibrücken works in Germany with machines designed and built for European customers.

New Generation

Introduction of a new line of combines featuring the patented Quick-Tatch header-mounting system for fast header attachment.

1970

Advanced protection

John Deere becomes the first agricultural company to immerse the entire combine separator body in an electrostatic paint bath.

1989

Hybrid technology

Another industry first. The introduction of the ground-breaking CTS hybrid combine with twin rotors takes harvesting capacity to a new level.

1991

Satellite navigation

The introduction of the StarFire GPS navigation system links positioning (± 30 cm) and yield and moisture data for the first accurate yield mapping system.

1998

Single rotor

The revolutionary Single Tine Separator combine is launched. Using less power it can harvest enough grain to make 1 million loaves in a day.

1999

The intelligent combine

The i combines are launched with AutoTrac, accurate hands-free guidance SF2 guidance (± 5 cm) and HarvestSmart automatic ground speed control.

2004

Production milestone

John Deere Harvester Works manufactures its 500,000th self-propelled combine.

2010

Remote Display Access

Remote screen sharing via JDLink allows dealers to provide remote support and wireless data transfer creates new possibilities for the future

2014

Take the right decision

- **High capacity Harvest**
  Developed for European high yielding conditions
- **Outstanding grain quality**
  Crop on crop threshing
- **Excellent straw quality**
  Gentle rotor action
- **Low cost of operation**
  High efficiency crop flow
- **Outstanding reliability**
  Made in Germany
- **Comprehensive support**
  Certified dealers
- **100+ years of innovation**
  Here for you today and in the future

JOHN DEERE

JOHN DEERE
FINANCIAL

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

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