

FOR THOSE WHO DEMAND MORE. AXIAL-FLOW® 230-SERIES

**CASE II**  
AGRICULTURE



# **AFTER MORE THAN 160 YEARS WE STILL SHARE THE SAME VISION: FOR FARMING IN THE FUTURE, AGRICULTURAL MACHINERY MUST ALWAYS BE AN INNOVATIVE, RELIABLE AND PROFITABLE INVESTMENT.**

160 years ago the first machines were born under the Case IH brand names, such as Case, International Harvester and David Brown etc. They very soon became legends; these brands played a major role in shaping the spirit of farming over the decades. As the inventor of the power take off, axial-flow threshing, hydraulic reversing gear and the pioneer of the continuously variable transmission, the Case IH heritage goes on. Today, the first pioneers' vision of agriculture is still the heart of every Case IH product. It is with the same passion that every day we continue to develop agricultural machinery in Europe and across the world with more than one hundred thousand Case IH machines in operation.

This wealth of experience has given us the opportunity to listen to you and design products that deliver precisely what you need. Our drive for innovation means we have been able to envisage advanced technological solutions that continue giving our machines even higher performance and productivity and make them easier to use and more profitable. Our constant striving for quality enables us to achieve perfection down to the smallest detail. We demand the same high level of quality in the services that we provide to our customers. Our network of 391 dealers, 679 dealer branches and subdealers and 1377 Case IH service centres in Europe is your guarantee of personalised and professional service. That is how we like to work in gaining the trust of our customers.

**CASE IH: FOR THOSE WHO DEMAND MORE**

# MORE THAN THREE DECADES OF ROTOR HARVESTING HERITAGE.

Over the past 30 years Case IH has optimized the single in-line rotor design to ensure our machines excel in capacity, performance and efficiency. The success of your business is measured by the price you earn for your crop. Whatever the challenges of the growing season you only have a single opportunity to get the crop from the field to market in perfect condition. No other combine does that as effectively as the Axial-Flow®.

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## TAKING PERFORMANCE TO A NEW LEVEL.

New Axial-Flow 7230, 8230 and 9230 combines are built for the biggest farms, the largest contracts, the highest yields and the most demanding owners and operators, aiming for less operating costs. At their heart is the proven principle of Axial-Flow single rotor technology, and the benefits that it brings: thorough threshing, leading to lower losses, but with the gentlest of grain handling.





But, of course, things move on apace – technology, environmental considerations, crop yields, fuel prices... That's why Case IH engineers have enhanced almost every aspect of the latest Axial-Flow machines, to make the new 230 series more efficient, more effective, more capable and more comfortable. This, without compromising on its uncomplicated design to maintain high availability during the peak harvest and keeping those costs at bay.

### **PERFORMANCE AT IT'S BEST...**

New Axial-Flow 230 series combines are a match for anything on the market when it comes to sheer output. With up to 571hp on tap and grain tanks that hold as much as 12,330 litres, capacity isn't in question. These are machines designed to put tonnes in the trailer as fast as possible - in all crops and all conditions. But that's not at the expense of grain or straw quality. Gentle threshing and absorptive straw are hallmarks of the latest Axial-Flow rotors.

### **...BUT NOT AT ALL COSTS**

Case IH engineers understand that, while getting grain in the barn is the key to maximising income, fuel is one of farmers' biggest outlays, and that covering the ground quickly means nothing if it comes at the expense of higher diesel consumption or increased grain losses. At the heart of the new Axial-Flow series are engine, transmission and rotor refinements designed to extract all power possible from every last drop of diesel, and ensure long-lasting reliability of every component. According to independent sources the Axial-Flow combines have up to 35% lower service- and maintenance costs\*) compared to competition. Case IH is constantly seeking to reduce the impact of its machines on your wallet, and on the environment.

### **EASY OPERATION**

Axial Flow combines have long been renowned for their simplicity. While our machines and the technology they incorporate have come a long way over the past three-and-a-half decades, helping owners become more productive in the process, one thing that hasn't changed is this commitment to simple, successful principles - in operation, in servicing, in the management of the machine.

### **A RICH TRADITION**

Single rotor combines were pioneered by Axial Flow engineers. We have thirty four years of experience behind us, and our belief in the single rotor principle for both threshing and separation is borne out in our dedication to the design. But that means nothing without the backing of the thousands of farmers who have bought Axial Flow combines every year since their introduction. This brochure will tell you why we think Axial-Flow is the way to go. But nearly 145,000 of those satisfied customers tell you a whole lot more.

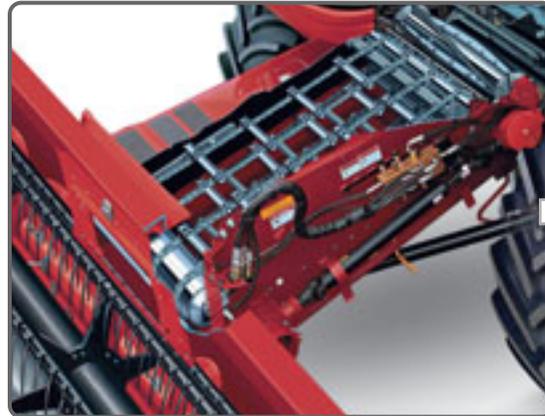
\*) Comparison study of Georg-August-University Göttingen in DLG Mitteilungen 06/2011

## AXIAL FLOW HEADERS. DESIGNED TO GATHER EVERY GRAIN.

High capacity combines need wide headers. Available in widths up to 10.7m (or 35ft), Case IH grain headers are designed specifically for European conditions, and allow you to make the most of the capacity these machines are capable of. Choose from 2000 series standard cutterbars or 3050 VariCut units, which allow the combine knife position to be moved 'on the go', through a 50-57 cm range, for fast and even crop feed regardless of straw length or condition. For maximum capacity in maize, six-, eight- or twelve-row, chopping headers are available.



There are just two couplers for hydraulic and electrical header connections, keeping attachment/detachment time to a minimum. Automatic header recognition eliminates any need for set-up time when changing headers, while the standard Terrain Tracker system keeps the header parallel to the ground at all times, even at high ground speeds. Easy to operate for new or highly skilled operators



But headers are only half the story when it comes to getting crop into the combine. The Axial-Flow 230 series features high capacity feeders to improve the flow of cut crop as it enters the machine. And that's just the start when it comes to improving throughput...



### EXPERT PERFORMANCE IN MAIZE.

These hydraulically folding headers have been specifically designed for Axial-Flow® with strong shaft drivelines to ensure reliability. Cobs are precision picked and handled gently whilst the industry leading stalk chopper completes a perfect job. A consistent short chop length and even spreading of chopped material leaves a clean field behind.

## PERFECT GROUND HUGGING.

The Terrain Tracker header control system keeps the header **parallel to the ground** in undulating conditions.

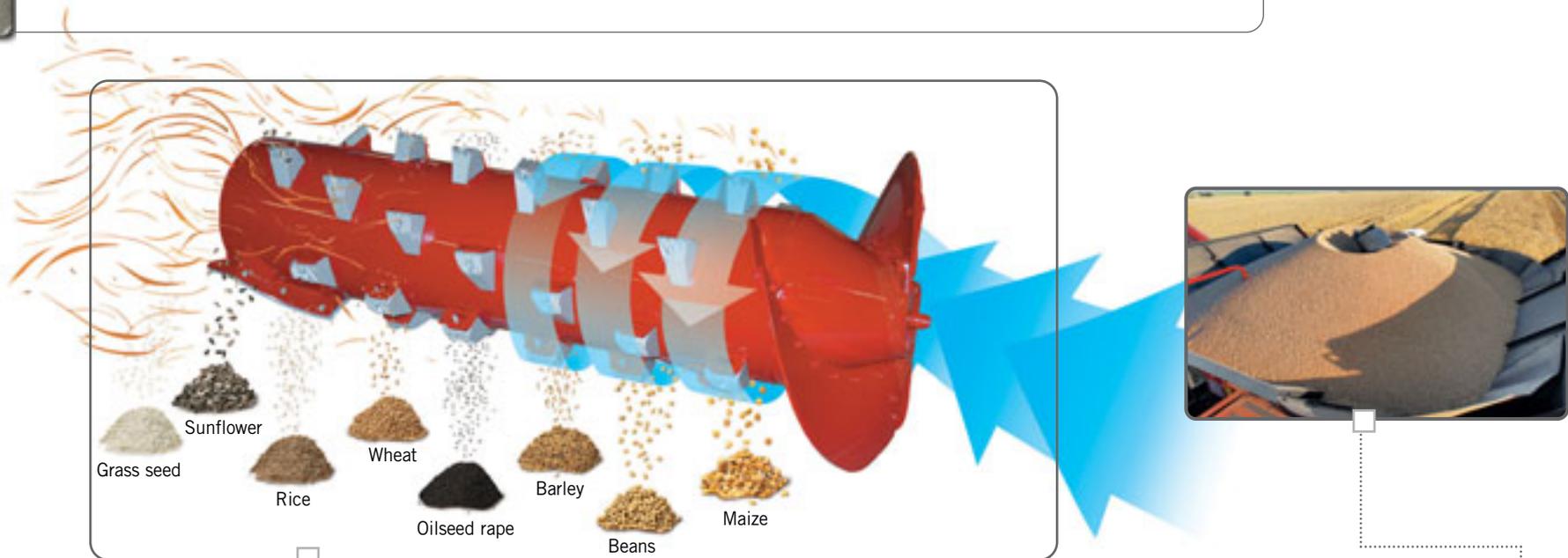


Electrical or hydraulic **rape seed knives** are available to operate in all rape seed conditions.



## AXIAL-FLOW ROTOR – THE HEART OF THE PROCESS.

At the heart of every Case IH 230 series combine is the latest Small Tube rotor, developed to boost throughputs in moist conditions and further improve threshing performance without compromising grain and straw quality, in dry and wet conditions, regardless of the crop being harvested.



The grain-on-grain threshing action it promotes ensures that **what goes in the grain tank is unbruised and unbroken, retaining the high quality crop-grade** and less grain lost on the field, adding revenue to your bottom line. There's no high-impact conventional drum like that used in conventional or hybrid combines, and the transition from threshing to separation is completely seamless.

High centrifugal force is achieved at low rotor speeds, but for tougher conditions it's simple to increase the rotor velocity. Rasp bars are arranged in three spirals around the rotor, for improved threshing, straw quality and for reduced power consumption. Access to the rotor cage is possible from both sides of the machine, while lightweight concaves and separation grates can be easily removed and changed for different crops.

### CLEAN SAMPLE FOR HIGHEST MARKET VALUE.

The Axial-Flow system produces the **best possible quality grain**, plus there is more of it. The result is evident from the amount you earn for your harvest.



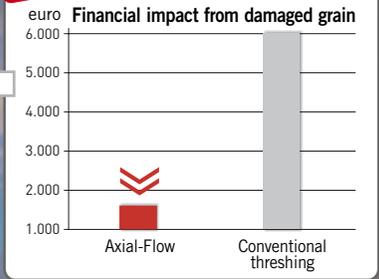
**STRAW QUALITY FOR BALING OPERATIONS.**

Profit even more with a **high quality straw** harvest.

**LESS GRAIN LOSS, MORE MONEY IN YOUR POCKET.**

With a total separation area of 2.8 square metres and the centrifugal separating force generated by the rotation of the Axial-Flow® rotor, **more of your harvest goes in the grain tank.** As well as achieving the best possible quality grain, there is also more of it. The result is evident from the amount you earn for your harvest.

**GAIN up to 4,400 EUROS per season\***



\* Based on 500 ha operation. Axial-Flow assuming 0,5% grain damage, whereas conventional threshing assuming 2% grain damage measured in grain tank.

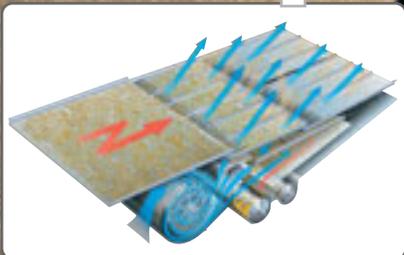


## MORE IN THE TANK, MORE IN THE BANK.

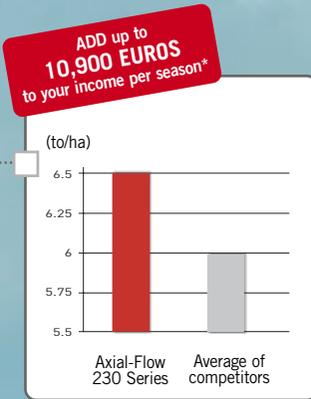
Axial-Flow 230 series combines are designed to put big quantities of clean, undamaged grain in the tank – and fast. Once crops are ripe and ready, we know your priority is to get them off the field and into the shed as quickly as possible. But Case IH engineers recognise that every grain is precious; that high outputs are no compensation for losing crop out of the back of the combine. That's why they go to great lengths to give you the best separation system in the business.

But it's not just the rotor that makes the Axial-Flow difference. **The Cross Flow cleaning system which follows the separation process uses chevron-shaped volutes** to create a uniform vortex along its axis to create high volumes of air throughput. Unlike conventional systems, there are no air pockets created – distribution is consistent across the underside of the sieves. And fan speed is fully adjustable to cater for finer-seeded crops.

New Axial-Flow 230 series combines offer **enormous grain tank capacities of up to 12,330 litres**, keeping the need to unload to a minimum. Easy to open up large fields without awkward unloading stops. And with unloading rates of up to 159 litres/sec, grain is transferred to trailers in as little time as possible.

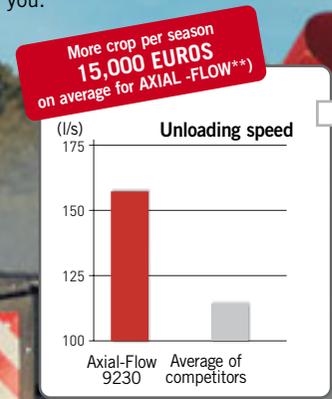


A large and efficient cleaning system, insensitive to changing harvesting conditions, is key to a clean grain sample and reduced losses allowing you to operate at capacity. Every percent reduced loss, adds 10,900 euro to your income (based on 10 to/ha on a 500 ha harvest area, at 218 euro per ton).



### LESS TIME WASTED WHEN UNLOADING ON THE HEADLAND.

The high capacity unload option reduces unloading time in high yielding crop conditions, improving overall performance during the day. Less time wasted when unloading on the headland. **\*\* Increase your productivity by 20 to /day or 15,000 euro per 20 day season (based on 159l/s for Axial-Flow 9230) when the weather is chasing you.**



## A FINE CHOP? A PERFECT SWATH?

With a Case IH Axial-Flow, it's your choice. A 120-blades straw chopper pulverises straw and evenly discharges it deep into the stubble across the full width of cut, even in windy conditions. A 40-blades straw chopper is available for reduced power needs in dry conditions. Change over to swathing and you're presented with neat swaths of straw that put to rest any notion that straw from rotary combines can't be baled. And it's also possible to create swaths of prechopped straw for high density bales from non-chopping balers for economical transport.



It's a common conception that the combine – and the stubble it leaves behind – is the first tool in creating the ideal conditions for establishment of the following crop. With an Axial-Flow, the combination of **precision cut at the front and precision chop at the rear** results in the perfect start for the next cropping season.- no time wasted with blocked tillage equipment.



### KNIFE PROTECTION SYSTEM.

**Impact counter knives are individually mounted** and can slip backwards to allow foreign objects to pass through. **40 blades straw chopper is available** in dry conditions for reduced power needs.



**THE BEST IN THE BUSINESS.**

Axial-Flow® residue management system equals or exceeds previous industry benchmark.

## WELCOME TO YOUR HARVEST OFFICE.

Case IH understands the pressures faced by farmers at harvest. We know good labour is hard to find, and that many businesses employ only the minimum of staff, whether by choice or necessity. So whoever is in the seat – the farm owner, a skilled operator, a temporary harvest team member – they need a machine that's easy to operate.



Case IH engineers have thought through every detail of the way in which operator interacts with machine to ensure the Axial-Flow is as simple and comfortable as possible to operate. The **Multifunction Propulsion Control lever** places all the key external functions of the Axial-Flow® combine in the palm of your hand. **For full control, the most commonly used commands are arranged in the best ergonomic position**, allowing easy management of all header functions and operation of the unloading auger. In addition an emergency stop button is included to halt cutter bar and header auger.



There's a new right-hand console-mounted display which makes monitoring key combine functions much easier, and setting the machine up much simpler. The **AFS Pro 700 colour touch screen monitor** includes video capability.



A CASE IH operator deserves a comfortable, user friendly operator environment. Climb the easy-access, foldable steps to the spacious deck, and behind the cab door you'll find ample space and storage, with comfort enhanced by thoughtful details such as a air suspended operator seat, a low noise level and an **unrestricted view**. A handrail and slip resistant footrest make windscreen cleaning safe and quick - practicalities designed by experienced Case IH combine engineers.



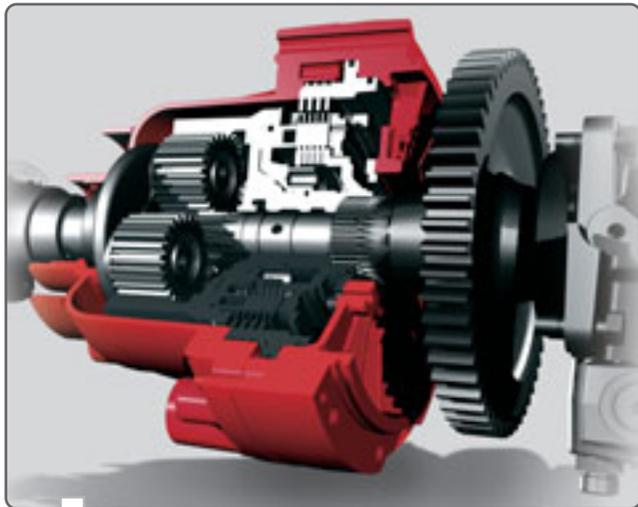
## **NO LIMITATION ON YOUR WORKING DAY.**

When the crop is ready and weather conditions are favourable the all-round lighting of Axial-Flow® allows you to continue harvesting safely and efficiently. Stadium lights are fitted to the roof to completely floodlight the work area. Lights in the grain tank, on the unloading auger and at the rear of the combine ensure all critical areas are fully illuminated. a high intensity discharge (HID) lighting package is also available.



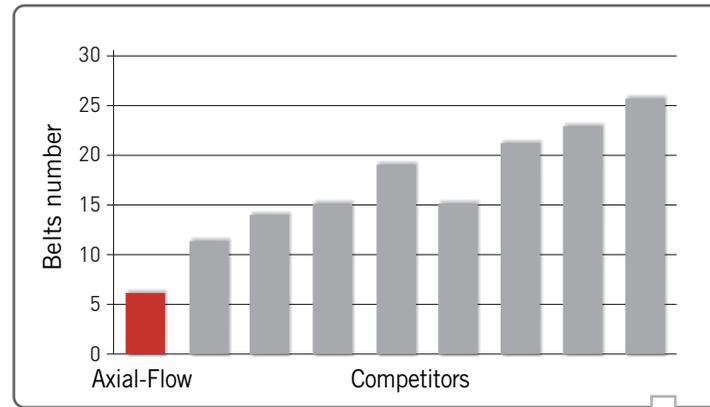
## LESS COMPLEXITY, MORE UPTIME.

The drives for the whole combine are powered from the central gearbox mounted directly to the engine for maximum efficiency. Indeed, Axial-Flow® is unique in that all the principal power transmission is achieved without use of belts, avoiding the problems associated with slip, wear, maintenance and replacement.



..... **The Power Plus™ rotor drive** offers the best possible efficiency for variable speed technology with low maintenance requirement:

- infinite rotor speed variability on the go
- reversing of rotor to deslag the combine
- designed to handle all rotor loads, reliability, without slip



### INDUSTRY-LEADING DRIVE TECHNOLOGY.

Compared with other combines the Axial-Flow® 230 .....  
**Series uses less belts** for best performance in the field.



Case IH has a justified reputation as the specialist in tracked drive systems for high-output machinery, with the Case IH Quadtrac having established itself firmly as the leader among high-hp tractors for traction, flotation and a narrow transport width. **That same drive system is now available for the front axle of Case IH Axial-Flow 72/82/9230 series machines**, bringing all of those three benefits to the combine market. And for hilly areas and wet conditions, there's a two-speed powered rear axle option on Axial-Flow 230 series, while downtime between fields can be cut with the optional 30km/hr road speed upgrade\*.

\*) to comply with legislation and specification in your country.

## MAXIMUM UPTIME IS ALWAYS ON OUR MIND. MINIMUM SERVICE COSTS ARE REALITY.

When there's a full day's harvest ahead of you, the last thing you want is a machine that's time-consuming to service. Daily checks and regular maintenance are simple when you run an Axial-Flow.



With a design that's centred around fewer moving parts than on conventional combines or on other rotaries, you can get going while others are still in the yard.

**Daily service points are simple to access via easy-to-raise side panels and the trademark Axial-Flow spacious rear engine deck.** Heavy service items such as the battery are sited at ground level for easy access and handling, but are fully sealed for security.



An optional, **on-board air line** means **there's no need for a separate compressor** for cleaning down the machine. And once you're done for the day, thoughtful touches include a new, larger toolbox to secure away valuable items, and a hand wash station.



### **SPACIOUS ENGINE / COOLING SYSTEM DECK.**

**Sturdy ladder provides easy access** to deck from rear of combine.

## EASY ACCESS TO CONCAVES AND ROTOR.

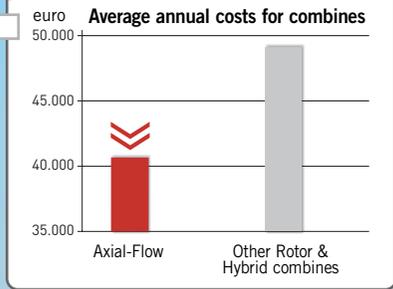
Cleaning or changing the concaves and rotor rasps has been made easy.



## MAXIMUM UPTIME.

Keeping your working in your fields, and **reducing maintenance and costly downtimes** is one of the ideas behind every Case IH Efficient Power EP Axial-Flow we build. These combines have less moving parts than other combines and together with their quality engineering, operate at lower parts costs than their main competitors.

SAVE up to  
**8,500 EUROS**  
per year\*



\* based on 500 ha and on figures used from DLG Mitteilungen 06/2011



## EXTREME PRECISION. REALISE THE POTENTIAL OF YOUR CROPS.

Developments like the wheel, the plough and the tractor have revolutionized agriculture. The advanced Farming system AFS is the next step of development and opens a new area of productivity. Our contribution to your successful future. The new Case IH AFS Pro 700 monitor uses touchscreen technology to bring every aspect of information about your combine and your harvest to your fingertips. Through it, you can operate laser guided CruiseCut and satellite guided Accuguide systems, see yield maps, analyse field data and much more.



### CRUISE CUT.

Laser-controlled auto-guidance system

for use with any header.



## STRAIGHT, IDENTICAL, REPEATABLE.

They're words you'd expect an autoguidance system to deliver for you. And it does. Eliminating guesswork of row spacing to ensure each one is identical, meaning fewer end-of-row turns and overlaps. It maintains perfectly straight and repeatable rows with up to RTK accuracy. And it controls traffic patterns and decreases compaction, benefits that bring higher yields. That adds up to less stress and fatigue for you at the end of the day. Meaning you're **more relaxed and prepared for the next day's work.**



## PRECISION COMPONENTS THAT MATCH THE WAY YOU FARM.

The AFS Pro 700 colour touchscreen monitor gives the operator real-time information on combine settings and in-field performance to enable instant judgements on machine settings. That data includes yield and moisture monitoring, as well as grain temperature.

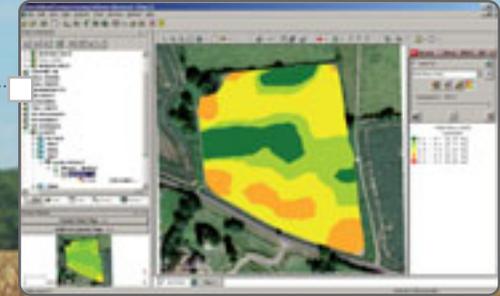
But it also provides the ability to download operating info such as yield maps to aid with field husbandry decisions at a later date. In the farm office, data transferred from the AFS Pro 700 via a memory card can be used to analyse and help correct field issues out of season.



## SOFTWARE THAT HELPS YOU ANALYZE PRODUCTION.

Depending on the market, AgLeader or other desktop software pulls together numerous sources of data about your farm and gives you the information you need to consider how things are changing. Layer yield and moisture maps over aerial photographs, and compile additional useful information with precision farming help from third-party information providers.

Customize charts, graphs and layered maps for further analysis of variety/hybrid, plant population and soil topography. Compare dimensions and field-to-field yields from year to year. Because autoguidance doesn't stop working for you once you get out of your combine.



## THERE'S MORE THAN JUST OUR COMBINES WORKING IN YOUR FIELDS.

Case IH has more professionals in the field than anyone else. Our dealers have the experience to help you manage your equipment to maximize yields and your bottom line. Parts and service technicians have the expertise to assist you before, during and after the sale. And CNH Capital will work with you to customize financing solutions to identify what works best for your needs and your farm. It's an integrated equipment, maximum service and financing system in one package. All of it focused on your operation.

### KNOWLEDGEABLE DEALERS THAT WORK WITH YOU.

Your Case IH dealer understands you need an optimum return on your investment. That means fitting the right Axial-Flow combine and capabilities with the tools and implements that best fit your farm. Your dealer can recommend the appropriate options package, with proper headers for optimum performance.

**And he or she will analyze results with you, field by field.** .....



MODELS	AXIAL-FLOW® 7230	AXIAL-FLOW® 8230 Efficient Power EP	AXIAL-FLOW® 9230
<b>HEADERS</b>			
Grain header cutting width (m)	7.3 m (or 24ft) / 7.6 m (or 25ft) / 9.2 m (or 30ft)	7.3 m (or 24ft) / 7.6 m (or 25ft) / 9.2 m (or 30ft) / 10.7m (or 35ft)	7.3 m (or 24ft) / 7.6 m (or 25ft) / 9.2 m (or 30ft) / 10.7m (or 35ft)
Knife to auger distance - 2030 / 2040 / 2050 / 3050 Varicut™ Grain header (mm)	450 / 600 / 510-1010 adjustable from cab		
Corn header model 2106 / 2108 / 2112	5, 6 and 8 row chopping corn heads	5, 6, 8 and 12 row chopping corn heads	
<b>THRESHING / SEPARATING</b>			
Rotor drive type	Gearbox and Shaft - variable speed Power Plus Drive		
Rotor speed range (rpm)	220 - 1,180 (3 ranges)	220 - 1,180 (3 ranges)	220 - 1,180 (3 ranges)
Rotor diameter and length (mm)	762 / 2,623	762 / 2,623	762 / 2,623
Total separation area (m²)	2.8	2.8	2.8
Threshing / separating modules wrap angle (°)	180	180	180
Number of threshing / separating modules	2 / 2	2 / 2	2 / 2
<b>SELF LEVELLING CLEANING SYSTEM</b>			
3 steps cleaning system	●	●	●
Cascade sieve	●	●	●
Cleaning shoe width (mm)	1,580	1,580	1,580
Levelling capability (%)	12.1	12.1	12.1
Total sieve area under wind control (m²)	6.5	6.5	6.5
<b>CLEANING FAN</b>			
Fan speed range (rpm)	Hydraulic Load Sensing - 300 to 1,150	Hydraulic Load Sensing - 300 to 1,150	Hydraulic Load Sensing - 300 to 1,150
<b>RETURN SYSTEM</b>			
Tailings return type	Triple impeller tailings processor	Triple impeller tailings processor	Triple impeller tailings processor
<b>GRAIN TANK / UNLOADING</b>			
In-cab control of grain tank covers	●	●	●
Grain tank capacity (l)	11,100	12,330	12,330
Unloading rate standard/high capacity (l/s)	113 / 141	113 / 141	113 / 159
Unloading auger effective length standard/high capacity (m)	6.4 or 7.3 / 7.0 or 8.8	6.4 or 7.3 / 7.0 or 8.8	6.4 or 7.3 / 7.0 or 8.8
<b>STRAW CHOPPER &amp; SPREADER</b>			
Straw chopper / beater	Integral	Integral	Integral
Rotor type - fine cut / extra fine cut	fixed knife	fixed knife	fixed knife
Number of knives - fine cut / extra fine cut	40 / 120	40 / 120	40 / 120
Spreader type	Vertical, twin disc hydraulically driven, in.cab speed adjustable		
<b>ENGINE *)</b>			
Type / Capacity (cm³)	Turbocharged, intercooled / 8,700	Turbocharged, intercooled / 12,900	Turbocharged, intercooled / 12,900
Max. power ECE R1201 at 1,950rpm (hp)	449 (330 kW)	516 (380 kW)	551 hp (405 kW)
<b>TRACTION</b>			
Transmission	4 speed hydrostatic	4 speed hydrostatic	4 speed hydrostatic
Final drive type	Heavy Duty - ratio 11/111	Planetary - ratio 1/13	Planetary - ratio 1/13
Differential lock / Heavy Duty Adjustable steering axle	● / ●	● / ●	● / ●
Track drive on front axle	○	○	○
<b>ADVANCED FARMING SYSTEMS (AFS)</b>			
Yield & Moisture monitor / mapping	○ / ○	○ / ○	○ / ○
AFS precision farming ready / Guidance ready	○ / ○	○ / ○	○ / ○
<b>OVERALL MACHINE SPECS</b>			
Length - feeder to rear trim panel (mm)	7,951	7,951	7,951
Wheel base (mm)	3,765	3,752	3,752
Minimum height (transport) (mm)	3,900	3,905	3,905
Shipping width without tyres (mm)	3,271	3,271	3,271
Width with tyres fitted - min (mm)	3,488	3,488	3,488
Weight - typical machine with HD adj. Axle (kg)	16,400	17,800	17,800
<b>TYRE OPTIONS</b>			
Front Tyres	710/70R42 / 800/70R38 / 900/60R32		
Rear Tyres	500/85R24 / 600/65R28 / 600/70R28		

\*) FPT Industrial-engine

1) ECE R-120 correspond to ISO TR14396

● Standard

○ Optional at extra cost



INTERNATIONAL



**SAFETY NEVER HURTS!**™ Always read the Operator's Manual before operating any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs, and use any safety features provided.

This literature has been published for worldwide circulation. The standard and optional equipment and the availability of individual models may vary from one country to the next. Case IH reserves the right to undertake modifications without prior notice to the design and technical equipment at all times without this resulting in any obligation whatsoever to make such modifications to units already sold. Whilst every effort is made to ensure that the specifications, descriptions and illustrations in this brochure are correct at the time of going to press, these are also subject to change without prior notice. Illustrations may show optional equipment or may not show all standard equipment. Case IH recommends **ACELA** lubricants.

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