

# VESTRUM CVXDRIVE

100-130 HP TRACTORS



**MACHINE  
OF THE YEAR 2019**



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**CASE IH**  
AGRICULTURE

# TAILOR-MADE SOLUTIONS

## The new Vestrum CVXDrive

We build tractors that perform in even the toughest conditions, providing the flexibility to perform any job. Case IH machines have always followed these guiding principles, and of course the Vestrum CVXDrive is no exception!

### A COMPACT PREMIUM MACHINE

The new model series, as compact as a highly-maneuvrable four-cylinder tractor, stands out from the crowd thanks to premium cab comfort and the same design as its larger sibling. And not least because it is the first Case IH tractor in the 100HP class to come with the continuously-variable CVXDrive transmission.

### LISTENING TO CUSTOMERS

Compact tractors are extremely popular with mixed and medium-sized farms as genuine workhorses. That said, customers in this segment are showing increased interest in the continuously-variable technology, and the Vestrum CVXDrive is our response to their practical requirements. Given the vast range of applications performed by compact tractors, the continuously-variable drive on the Vestrum CVXDrive can give full reign to its range of high-tech features unique to this HP class. Your everyday routine has just become much easier.

### CONCENTRATED TECHNOLOGY IN A COMPACT PACKAGE

Alongside the continuously-variable technology, the Vestrum CVXDrive series offers powerful yet efficient 4.5l Stage V engines, the last word in high-performance hydraulics and PTOs together with complete AFS and ISOBUS III integration.

### ALWAYS THE RIGHT CHOICE

Whether high or low roof, or the new cab with low roof and panoramic high visibility window: Choose your Vestrum CVXDrive and configure your tractor to suit the unique needs of your farm.

### FUEL FRUGAL AND POWERFUL

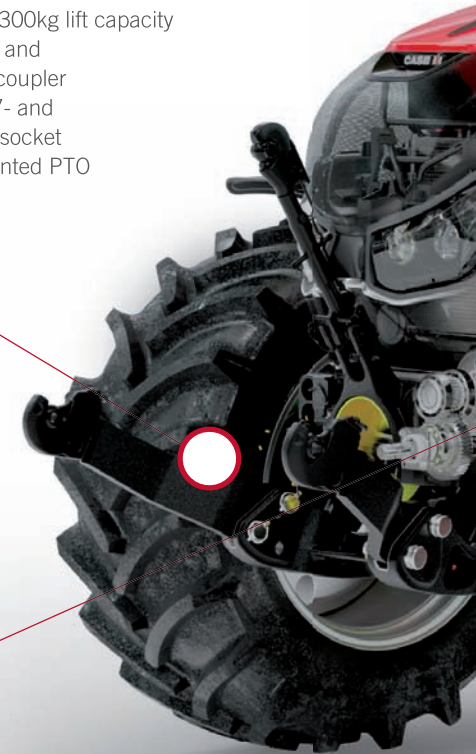
- 4-cylinder common rail engine with intercooling and Wastegate turbocharger
- 100-130HP rated power, 10HP additional power without boost
- Environmentally friendly: fulfills EU Stage V emission level
- HI-eSCR2 system with diesel oxidation catalyst (DOC) and SCR catalyst (SCRoF) compactly integrated all in one box under the bonnet
- Completely maintenance-free and multi-patented exhaust gas treatment system

### HEADLAND MANAGEMENT AND ISOBUS

- Headland management I
- Extended headland management II
- ISOBUS Cl. II
- ISOBUS Cl. III (speed control)

### FULLY INTEGRATED FRONT MOUNTING SYSTEM

- Front linkage with 2,300kg lift capacity
- 4 hydraulic couplers and low pressure return coupler
- Front electrics with 7- and 3-pin 40 A ISO plug socket
- 1,000rpm front-mounted PTO





#### **AFS ACCUGUIDE**

- Satellite-controlled steering system

#### **THREE DIFFERENT ROOF OPTIONS**

- High roof with roof window
- Low roof with roof window
- Low roof with panoramic high visibility window

#### **AIM HIGH**

- Manoeuvrable thanks to 4.5m turning radius with 55° steering angle
- Optimal visibility onto front hitch courtesy of sloping bonnet
- Electronic joystick including switches for 3<sup>rd</sup> and 4<sup>th</sup> service diverters
- Loader-ready ex factory

#### **HANDLE THE HEAVIEST JOBS**

- PFC hydraulic system with 110l/min pump capacity
- 5,600kg lift capacity
- External controls for rear hitch, hydraulics and PTO
- Up to 4 remote valves at the rear
- Up to 3 mid-mount remote valves
- Power Beyond connection available as an option

#### **STEPLESS, SEAMLESS**

- Automatic Productivity Management (APM) – perfect interaction of engine and transmission
- CVXDrive transmission with 0-40kph stepless speed range
- Active hold feature for safety on slopes

#### **SMOOTH RIDE – TIGHT TURNS**

- Suspended and braked front axle options
- 8,800kg permissible total weight
- 4WD and differential lock management
- Maximum tyre size up to 600/65 R38
- Reactive steering

# A GENUINELY COMFORTABLE WORKPLACE

Sit back and enjoy high performance



With the Vestrum CVXDrive, Case IH brings you the premium comfort you're used to from larger models to the mid-range 4-cylinder segment. Step into a workplace that you can simply feel comfortably at home in.

## PREMIUM COMFORT IS STANDARD

For the first time, Case IH allows you to choose between three different roof types, so that the tractor can be configured to meet your specific requirements. The Multicontroller armrest is a common feature of all Case IH Vestrum CVXDrive tractors. A 4-pillar cab with 5.87m<sup>2</sup> of windows meets ROPS and FOPS standards

## STAY ALERT, BOTH DAY AND NIGHT

The Vestrum CVXDrive offers a five-setting, adjustable cab suspension system for safe and comfortable operation; it provides always a smooth ride for the driver during road or fieldwork. A high-power LED lighting package, with up to 18 LED work lights, enables you to work in the dark and provides complete 360° illumination without shadows.

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## BENEFITS

- Premium comfort in the mid-range 4-cylinder segment
- Multicontroller armrest
- Three cab versions: High roof cab, low roof cab and low roof cab with panoramic high visibility window
- Five-setting, adjustable cab suspension
- Up to 18 LED work lights available



# EXTENSIVE FEATURES

Versatile enough to meet all your farm's needs

## PANORAMIC ROOF VERSION IS WELL-DESIGNED DOWN TO THE SMALLEST DETAIL

A continuous front screen with 235° wiper field offers outstanding visibility. Heated front and rear windscreens are available as options for an ice-free start on those frosty mornings.

Pick yourself up on warm days with a cool drink from the chilled compartment with lid right up front.

## ADDITIONAL FEATURES MAKE ALL THE DIFFERENCE

Your expectations are high, and the Vestrum CVXDrive cab doesn't let you down. All the main settings can be adjusted from the AFS Pro 700 monitor, while a Bluetooth radio with hands-free function means it's easy to make phone calls in the quiet cab. In addition, a wide variety of options like an automatic air conditioning system, electrically adjustable and heated wing mirror, and a range of air-sprung comfort seats ensure stress-free work, even during long days.

## EVERYTHING IN SIGHT, EVERYTHING UNDER CONTROL.

The tractor's performance monitor has a user-friendly home in the right A-pillar. An analogue display supplies you with information on fuel levels and coolant temperature, while two digital displays show all relevant information on gears, engine, PTO and hydraulics parameters.



A generous cooler compartment gives you plenty of space for food and drinks (low roof cab with panoramic high visibility window)



# THE CHOICE IS YOURS

Cab roof in three versions



## STANDARD CAB ROOF

The standard high roof cab can be ordered with or without adjustable high-visibility roof. The highlight of these versions is the outstanding visibility they offer through the roof and the spacious headroom. A high-power LED lighting package is also available. This roof is 10.5 cm higher than the standard low roof.



## GOOD HAS JUST GOT BETTER: NEW LOW ROOF WITH PANORAMIC HIGH VISIBILITY WINDOW

The low roof with high visibility window is an innovative solution from our Case IH engineers. The roof window blends almost seamlessly into the front windscreen, the continuous glass screen ensuring an unrestricted view onto the front loader attachments.



## STANDARD LOW ROOF

The exceptionally low roof design makes this the ideal solution for working in low buildings that are unsuitable for other tractors. A manual air conditioning system can be ordered as an option with the standard low roof.



# USER-FRIENDLINESS YOU'RE ACCUSTOMED TO

Coming now to the 100 HP class

## MULTICONTROLLER CONTROL ARMREST

The same control layout with the Multicontroller armrest is available on Case IH tractors, from Vestrum CVXDrive to the Optum CVXDrive and Quadtrac. If you and your staff already work with Case IH models and are familiar with the controls, this can significantly boost your productivity.

## EVERYTHING WITHIN REACH!

The most common functions are controlled from the ergonomically-optimised Multicontroller and the ICP control panel. Both elements are integrated into the control arm, which is also available as an electrically adjustable unit. The elements are backlit.

Using the knobs under the armrest cover, you can set a range of parameters such as flow rate and time control, and front hitch lift management.

## ICP OPERATING UNIT FOR A BETTER OVERVIEW

To make sure Case IH drivers get used to operating the Vestrum CVXDrive as quickly as possible, it has been fitted with innovative control units from larger Case IH tractor series. All of the most important buttons and switches have been grouped on the arm rest for very comfortable and intuitive operation. The driver's daily work is noticeably easier, while operator errors are prevented.



AFS 700 PRO  
TOUCHSCREEN MONITOR

MULTICONTROLLER

ICP-INTUITIVE  
CONTROL PANEL

HYDRAULIC AND  
HITCH SETTINGS



# UNPRECEDENTED VARIETY OF OPTIONS

Our watchwords at Case IH are simplicity and “at the touch of a button”

## **YOU'RE IN CONTROL – THE ERGONOMIC MULTICONTROLLER**

The Multicontroller offers the best possible ergonomics and a wide range of functions, all at your fingertips. With the HMC II (Headland Management Control II) option, you gain a configurable button that can be used to control any front or rear remote valves from the Multicontroller.

## **MAKE FRONT LOADER WORK A PLEASURE WITH THE ELECTRONIC JOYSTICK**

The electronic joystick is your first choice for any work involving the front loader. The third and fourth front loader functions can of course also be controlled by the joystick. To make loading more efficient, the flowrates to the mid-mounted electrical remote valves can be continuously regulated. If the front loader is not hitched, the toggle button allows you to swap between the electric rear and mid-mounted remote valves.



**FRONT- / REAR PTO ON / OFF**

**REMOTE VALVE LEVERS  
INKL. JOYSTICK**

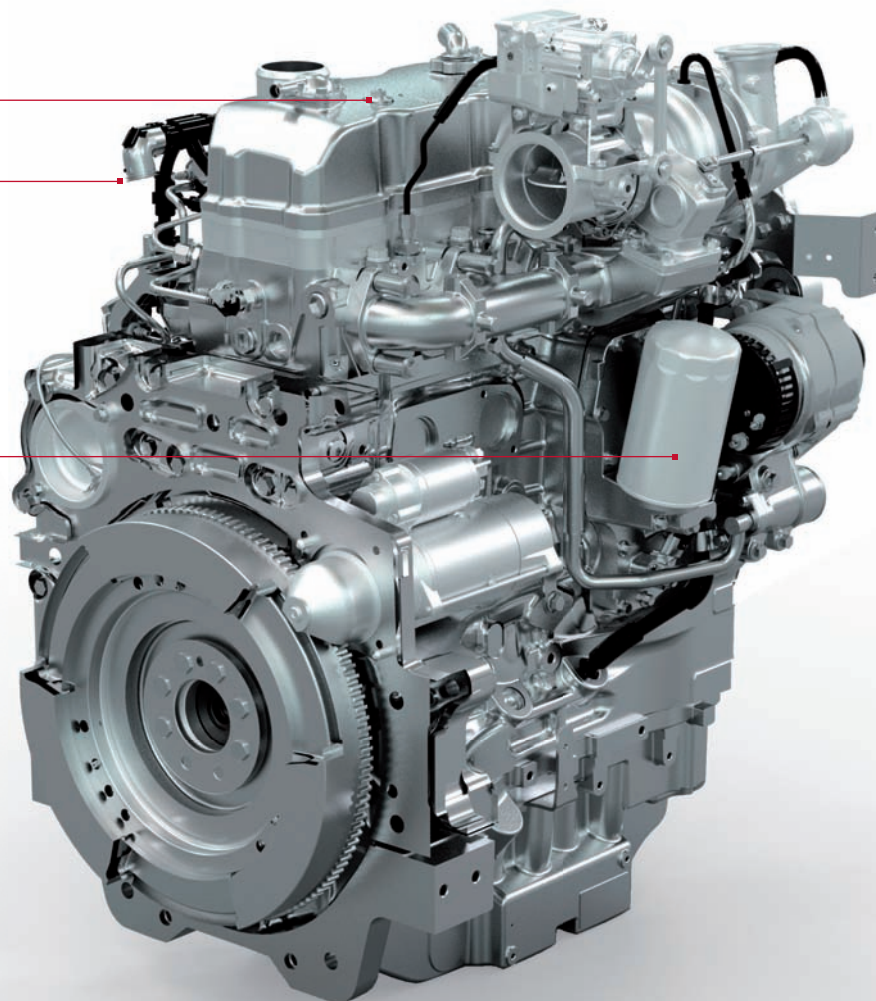
### **MULTICONTROLLER FUNCTIONS:**

- Shuttle shift forward/reverse
- Speed range change
- Raise/lower rear hydraulics
- Activate Headland Management Control (HMC II)
- Setting target speed
- Programmable control unit (with HMC II)
- AUX-N functions

4.5 LITRE ENGINE WITH 16 VALVES FOR BETTER GAS EXCHANGE

COMMON RAIL INJECTION AND WASTGATE TURBOCHARGER DELIVER MORE LOW-SPEED TORQUE AND BETTER ENGINE RESPONSIVENESS

600 HOURS SERVICE INTERVAL MEANS LESS TIME IN THE SERVICE BAY AND REDUCED TOTAL COST OF OWNERSHIP



	Rated engine power hp (kW) @ 2,200rpm	Maximum engine power hp (kW) @ 1,700 – 1,900rpm
Vestrum 100 CVXDrive	100 (74)	110 (81)
Vestrum 110 CVXDrive	110 (81)	120 (88)
Vestrum 120 CVXDrive	120 (88)	130 (96)
Vestrum 130 CVXDrive	130 (96)	140 (103)

# FEEL THE BENEFIT OF PROVEN EFFICIENCY

High-performance engine from FPT

Case IH once more uses proven technology from FPT on the Vestrum CVXDrive models. The innovative subsidiary enjoys an excellent reputation for its engines. The Vestrum CVXDrive engine has already demonstrated outstanding efficiency in the DLG Powermix, because it was tested in the Maxxum series.

## “MR CLEAN” POWERED BY FPT

The 4.5l engine with common rail injection system and a performance range of 100 up to 130hp rated power has four valves per cylinder for optimal exhaust emissions. A modern wastegate turbocharger and downstream intercooler give the engine the peak torque typical for the “maxidyne characteristic”.

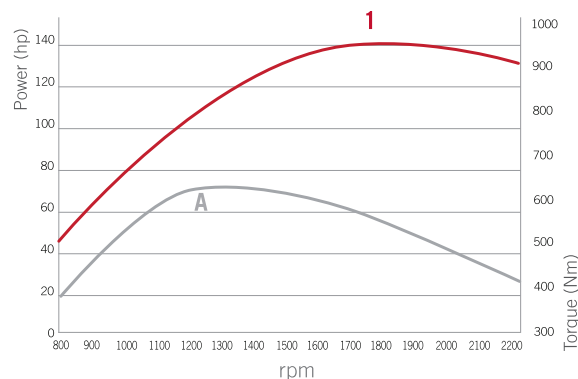
The maintenance-free HI-eSCR2 system for exhaust aftertreatment – the subject of many patents – ensures that the machine complies with the strict emissions requirements of EU Stage V.

## SLIMMED DOWN FOR EFFICIENCY AND ECONOMY

The wide constant power range and the outstanding torque rise of up to 48% minimise any drop in the engine speed, and so create the perfect conditions for even the heaviest traction and PTO work.

While maximum performance is achieved at 1,900rpm, the zippy engine produces its maximum torque at a fuel-efficient 1,300rpm. This ensures fewer vibrations, pleasingly little background noise in the cab, and the ultimate in comfort for the operator.

## CASE IH VESTRUM 130 CVXDrive



Curve 1: Maximum output of 140hp at 1,800rpm

Curve A: Maximum torque of 630Nm at 1,300rpm

## ADVANTAGES

- FPT engine with 100 - 130hp rating, all version meet EU stage V emissions standards
- Patented HI-eSCR2 exhaust gas treatment system
- Up to 10hp additional power from all models
- 2 constant engine speed settings
- Tanks for 180 litres of diesel and 19 litres of AdBlue
- Industry-leading 600 hour service interval

## EVEN MORE POWER

The Vestrum CVXDrive delivers up to 10hp extra when needed without boost, depending on the model. The max. torque is unusually high for this class.

## DESIGNED FOR LONG WORKING DAYS

Long shifts in the fields can be covered without constantly having to refuel, thanks to the large tanks with capacities of 180 litres for diesel and 19 litres for AdBlue.



# CONTINUOUSLY-VARIABLE TRANSMISSION, IN CASE IH STYLE

The most efficient way to work

Case IH was a pioneer of the continuously-variable drive concept, which is controlled by an intelligent engine transmission management (APM) system. For almost two decades we have worked to continuously improve this concept, now made more efficient thanks to our double-clutch technology.

## USER-FRIENDLY CONTROLS

As soon as the direction is specified by the shuttle lever and the throttle or the Multicontroller is activated by the operator, the transmission will continuously accelerate from 0-40kph. The key feature here is that there is no complicated preselection process when switching between Multicontroller and throttle.

## DESIGNED FOR HEAVY TRACTION WORK

The double clutch technology allows operators to engage the two mechanical forward drive ranges and a reverse gear – without disrupting the traction power and with virtually no wear.

## SIMPLE DESIGN FOR A LONG SERVICE LIFE

The transmission design focuses on simplicity for maximum efficiency and reliability. At its heart lies a summing planetary transmission, which combines the drive speeds of the engine and hydro motor, guaranteeing a continuous transmission ratio from 0-40kph in the process.

## SAFETY IN ALL CONDITIONS

A special feature of the Case IH CVXDrive transmission, the active hold control, ensures that the tractor does not roll on slopes without having to engage the clutch or brake. No more worries when you are working in hilly terrain, e.g. with a baler; all your attention can now be focused on baling.

An anti-jack knife function provides additional safety when pulling trailers. The transmission ratio is “frozen” by engaging the service brake, and this helps keep the combination straight.



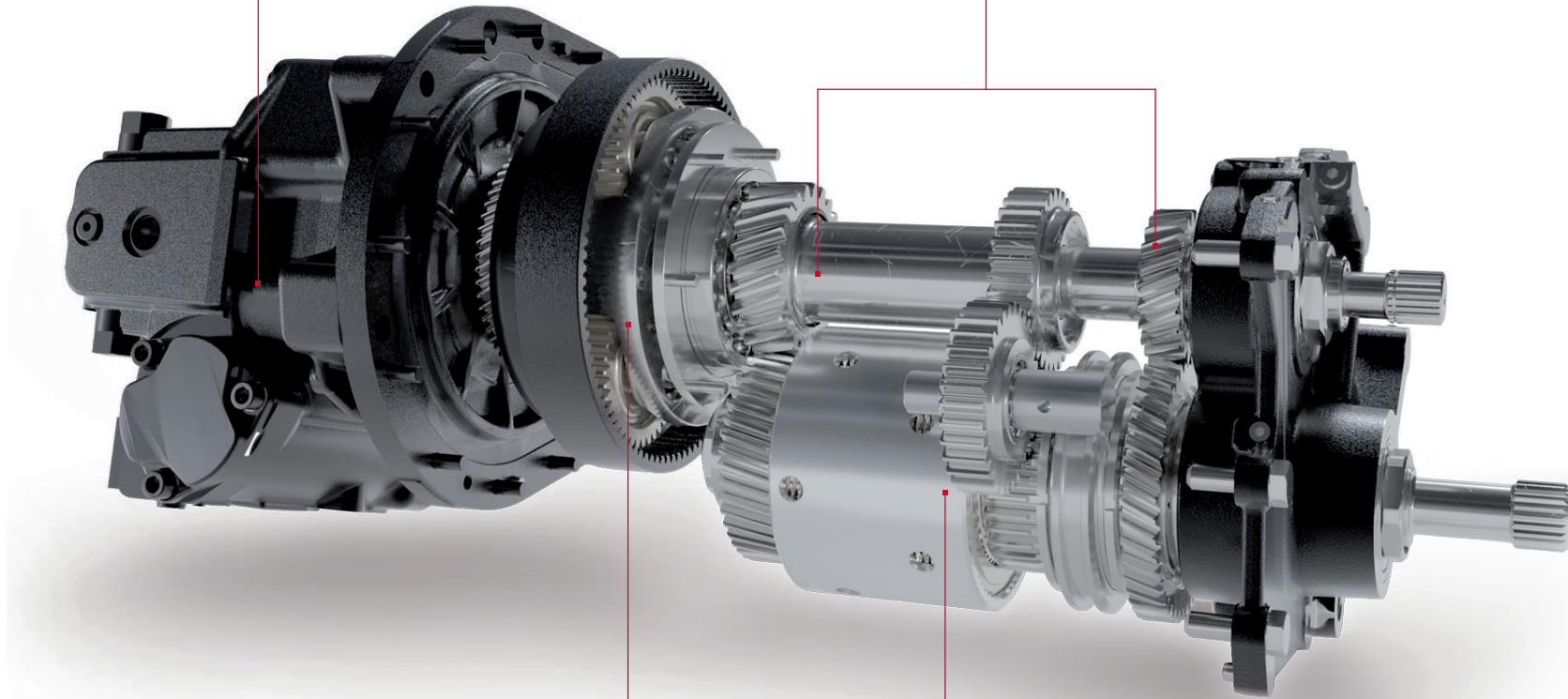
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## BENEFITS

- Continuously-variable drive for maximum efficiency from 0-40kph
- Can be controlled in parallel with both foot pedal and Multicontroller
- Simple design and long service life
- Active hold control as an additional safety feature on slopes
- Automatic Productivity Management (APM) for maximum efficiency

**HYDRAULIC MOTOR + HYDRAULIC PUMP FOR  
CONTINUOUSLY-VARIABLE ACCELERATION  
FROM 0-40KPH**

**2 MECHANICAL DRIVE RANGES FOR ENHANCED  
EFFICIENCY**



**SUMMING PLANETARY TRANSMISSION  
WITH ACTIVE STATIONARY CONTROL**

**WET DUAL CLUTCH FOR GENTLE  
DRIVE RANGE SHIFT**

# FULL HYDRAULIC POWER AS YOU NEED IT

With optional front hitch management

## OUTSTANDING EFFICIENCY

All Vestrum CVXDrive models are equipped with a variable pressure and flow rate compensated high-power axial piston displacement pump. The secret of this system is that the displacement pump always supplies exactly the right amount of oil required by the hydraulics or remote valves, resulting in fuel savings for you as well as low wear.

## FRONT LINKAGE MANAGEMENT

Front linkage management is available as an option for all Vestrum CVXDrive models. This feature allows the working position and maximum lifting height to be set using a dial on the armrest. The front linkage can then be easily raised and lowered to the preset positions using the Multicontroller. The automatic

float position, which is activated by lowering the front lift, together with the automatic front PTO result in unsurpassed advantages when doing jobs such as mowing or working with rollers.

## REMOTE VALVES

The basic on-board equipment always consists of two mechanical rear remote valves. These can be supported by another two mechanical or electrohydraulic rear remote valves. You can fit up to three electrohydraulic mid-mounted remote valves in addition. A Power Beyond connection is also available as an option.



Models with purely mechanical rear remote valves also allow easy control via ergonomic levers.



Oil motors or implements making large demands of the hydraulics can be supplied with up to 110l of oil per minute via the Power Beyond connection.



	mechanical	electric rear remote valves	electric mid-mounted remote valves (flow rate control and timing)	Power Beyond
Standard	2	-	-	-
Optional	2	up to 2	up to 3	optional

# MAXIMUM FLOW OF POWER FROM ENGINE TO PTO

## Versatility is everything

### WE CAN DO IT ALL

The Vestrum CVXDrive was designed with all the main jobs in and around the farm in mind, and the available PTO configurations reflect this need for flexibility. You can specify up to three rear PTO speeds for your Vestrum CVXDrive; available speeds are 540/1,000 or 540/540E/1,000 or 540E/1,000/1,000E.

Standard engine speeds are reached at 1,900rpm, and this is where the Vestrum CVXDrive performs at its peak. If less demanding work needs to be done, in other words if high torque is required instead of full engine power, you can fall back on more fuel-efficient economy PTO speeds.

### EFFICIENT PTO TECHNOLOGY

PTO management disengages the PTO as soon as the hitch lift is lifted to a pre-set height, and engages it again when lowering. The same efficient and fuel-saving function in combination with front hitch lift management is also available for the front hitch lift. In

both cases, the function can be programmed using headland management HMC II.

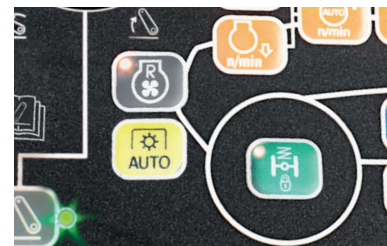
A soft-start function is also available, which increases the pressure to the PTO clutch gradually while taking the starting resistance of the implement into account. This means that tractor and implement are protected to the same extent. The PTO brake stops the implement and prevents it from coasting as soon as the PTO is disengaged. This function can be deactivated.

### EVEN MORE PRODUCTIVE

In order to enhance productivity and versatility even further, we offer a ground speed PTO for specialised applications as an extra alongside the optional 1,000rpm front PTO.



Direct power transfer from the motor to the front PTO.



Automatic PTO mode is standard for the rear PTO and offered as an option for the front PTO.



Electro-hydraulic activation of the rear and front PTO.





# CASE IH AFS™

Take advantage of maximum precision - day in and day out

**Case IH Advanced Farming Systems (AFS™) have been at the forefront of precision farming for more than a decade. Case IH AFS tools include everything you need to achieve repeatable accuracy down to 1.5 cm, reduce overlaps, cut operating costs and maximise your profitability.**

## A FULLY-INTEGRATED SOLUTION

Your Vestrum CVXDrive can be made “AFS™ AccuGuide Ready” on the assembly line with installation of the AFS Pro 700™ touchscreen and steering position sensors. You may also choose to retrofit a fully-

automatic GPS/Glonass steering assistance system. Using the signal from a local RTK+ station gives you track-to-track accuracy of 1.5 cm. The RTK system bridges breaks in reception or signal drop-outs of up to 20 minutes with the xFill app, keeping you right on track even where there is shadowing due to buildings, etc. In addition, some European markets will receive signals from Galileo satellites, in addition to GPS and GLONASS, enhancing the precision of your farm planning even more.

With the optional Case IH AFS Connect™ telematics system, your Vestrum CVXDrive can be pinpointed in real time from the comfort of your office. An analysis of the performance data can help you optimise logistics and efficiency coupled with lower fuel consumption.

## OUR GOAL: OPTIMAL COVERAGE, MINIMAL FAILURE RISK

Integration of the Galileo satellite network provides a substantial boost to network coverage for our customers in Europe and further reduces the signal failure risk. If the signal is lost, the excellent coverage ensures that it is quickly restored.



xFill bridges RTK+ signal losses of up to 20 minutes



AFS AccuGuide: GPS and Glonass based track guidance

## BENEFITS

- Different signal accuracies available
- The receivers use GPS and Glonass signals
- Low-cost RTX signal
- High-precision RTK+ signal as an option with accuracy levels of up to 1.5 cm
- Integrated automatic AccuGuide track guidance system
- xFill bridges RTK signal failures of up to 20 minutes
- The AFS Connect telematics system enables geotracking and the transmission of performance data

# AFS CONNECT

Manage your farm, fleet and data remotely

AFS Connect lets you remotely monitor and manage your farm, fleet and data, allowing you to optimise your performance, productivity and flexibility. Efficiently visualise your equipment with little to no idle time. With all the information at your fingertips, you can successfully manage your operations anytime, anywhere!

## USER-FRIENDLY INTERFACE

- New, intuitive and redesigned interface with all information at your disposal
- Ergonomic platform divided into 3 sections: fleet, farm & data

## TIME-SAVING MANAGEMENT

- Visualisation of data from multiple machines in one field
- Manage your activity & transfer data from your office to machines and vice versa

## MAXIMUM PRODUCTIVITY ENHANCING DECISION MAKING

- Notifications & visualisation of critical operating parameters
- Connect and share securely with Application Programming Interface (API)

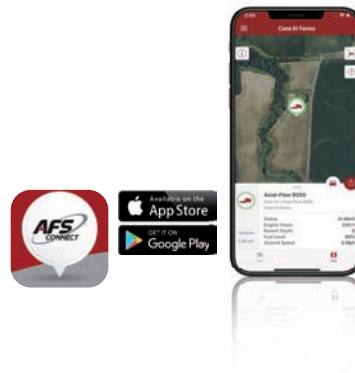
Go anywhere, see everything

## RECEIVE UPDATES ON YOUR DAILY OPERATIONS

- See, share and manage data on the go, in real time, from any device
- View updated machine telematic data and fault codes remotely

## THE ULTIMATE SOLUTION FOR WHEN YOU'RE ON THE MOVE.

- Live vehicle map allows lets you find machines' locations and and get driving directions
- Share vehicle info, location and directions with various apps (e.g. WhatsApp) on your phone



## YOUR ALL-NEW DESTINATION FOR CASE IH PRODUCT SUPPORT

MYCASEIH is a new free cloud-based platform which gives you a single place to log in for access to everything related to your Case IH farm equipment. Find an overview of all your machine and equipment, manage your users and access a support knowledge section with operator manuals, support documents, parts catalogues and more. The platform is available on all devices: smartphone (Apple & Android), tablet and desktop.

VISIT US AT [MY.CASEIH.COM](http://MY.CASEIH.COM)



## FARM MANAGEMENT

### GET MORE DONE EACH DAY

Optimise your time by easily organizing your fields, applications and agronomic data



## FLEET MANAGEMENT

### TRACK, MONITOR & MANAGE YOUR ENTIRE FLEET

Efficiently track your equipment's location & view machine parameters in real time



## DATA MANAGEMENT

### CONNECT AND SHARE DATA

Securely share your farm data with trusted partners, anytime, anywhere

## MANAGE YOUR COMPANY

Managing your fields and your data can be time-consuming. AFS Connect optimises your time by easily organising your fields, applications and agronomic data. With a wealth of information at your fingertips, you can boost your operation's performance.

- **Data visualisation:** access agronomic data in near real-time for all your seeding, application and yield activities. Included: topographic, weather, equipment, or prescriptions information.
- **Reporting:** capture all of your critical farming information on the go or directly from your equipment. Plan upcoming activities, manage logistics, share data with your trusted advisors and make informed decisions.
- **Usability:** Keeping track of everything going on in your operation has never been easier. Whether you're on the road, in the field or at the office, the intuitive user interface keeps you informed.

## MANAGE YOUR PRODUCTIVITY

When all your equipment operates efficiently with little to no idle time, you have the peace of mind that comes with working smarter and knowing that you're doing all you can to make the most of each growing season.

- **Fleet overview:** access key information with detailed performance values for each machine by vehicle type. The map overview allows visualisation of connected equipment to more efficiently execute infield operations and coordinate the fleet.
- **Vehicle details page:** access recent machine operations and get a 7 day report of the vehicle status by hours and fuel usage.
- **Fault history and notifications:** view and filter the faults shown to the operator on the in-cab displays. Configure and setup notifications such as vehicle speeds, oil temperature, engine load or fuel level and receive them via web or via text messages.

## MANAGE YOUR DATA EXCHANGE

Seamlessly manage, share and move data — all while ensuring you stay in complete control with your preferred trusted business partners.

- **Secure data sharing:** Securely share selected data with trusted partners while keeping complete control on who can access each piece of generated data.
- **Third-party partners:** wirelessly transfer two-way data between AFS Connect and trusted third-party suppliers (AgDNA, Cropio, Farmers Edge™, Trimble® Ag Software, Climate Field View...) to make the most of agronomic data and drive daily management decisions.
- **Solutions for mixed fleets:** Case IH customers benefit from a comprehensive solution for sharing data thanks to two recent partnerships:
  - DataConnect is a new cloud-to-cloud interface, in partnership with CLAAS, 365FarmNet, John Deere and New Holland. Mixed-brand fleets owners can look forward to easier data exchange and management without compatibility issues.



**MACHINE OF THE YEAR**

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- With the universal data transfer hub Agrirouter (including many other tractor and implement brands like AGCO, SDF, Krone, Pöttinger, Lemken, Kuhn, etc., list available at <https://my-agrirouter.com/en/agrirouter/brands/>) to help ensure compatibility of tractor and implement data management systems.

# AUTOMATED OPERATING SEQUENCES FOR INCREASED PRODUCTIVITY

Work productively, accurately, and in comfort with the headland management system, AccuTurn plus, and integrated ISOBUS compatibility

Vestrum CVXDrive operators are guided through complex operations by the comprehensive and user-friendly headland management HMC II system. All operating steps can be programmed according to time or distance covered, and triggers can be set for various automated functions such as reduction of engine speed after lifting an implement.

Headland sequences which are recorded in the field or while the tractor is stationary can then be retrieved by Multicontrollers, the AFS Pro 700™ monitor, or the

ICP control panel in the armrest, either automatically or manually as required.

## ISOBUS III FOR BEST EFFICIENCY

In addition to the ISOBUS I and II standards, which suggest implement settings via the AFS Pro 700 monitor (Class I) and control implements (Class II), the Vestrum CVXDrive also offers ISOBUS class III. In the latter case, the implements control the tractor, automatically specifying the forward speed, the hitch

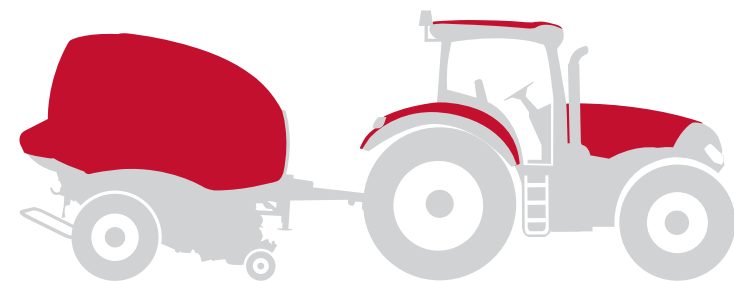
lift position and PTO speed, and activate the relevant auxiliary remote valves. ISOBUS III therefore delivers improved efficiency to both implement and tractor.

## AUTOMATED TURNING PROCESS

The new AFS AccuTurn Pro technology also coordinates headland management and steering processes. Turning radius, speed, and implement control when turning on headlands are automated and optimised, resulting in increased efficiency and improved comfort.



Fully-automatic headland turns with AFS AccuTurn



### PRESS CONTROLLER

Round baler loading control algorithm (software)

### ISOBUS CLASS III



### TRACTOR CONTROLLER

Speed adjustments made based on relevant signals from the baler

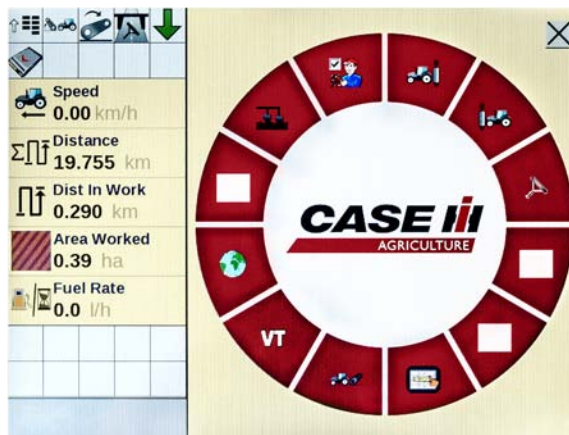
# EVERYTHING IS AT YOUR FINGERTIPS

including a wide range of intuitive functions

## THE DIRECT PATH TO HIGHER PRODUCTIVITY

A shortcut menu can be configured to give you quick, direct access to any screen, allowing you to leverage the full potential of the AFS 700 monitor. Forget navigating through complicated submenus - get to your most important settings at the push of a button.

The monitor integrated into the operator's seat armrest gives the operator full control over all the tractor's automatic functions. The system also provides feedback on operating costs and the relevant yield in real time.

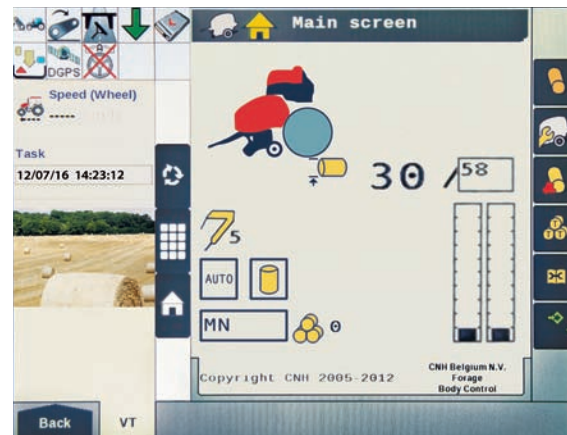


Freely programmable short cut menus for quick access

Its user-friendly AFS Pro 700™ software is easy to set up and allows you to communicate with the AFS automatic steering systems, as well as synchronising the tractor with ISOBUS-compatible implements.

## ONE DISPLAY, COUNTLESS OPTIONS

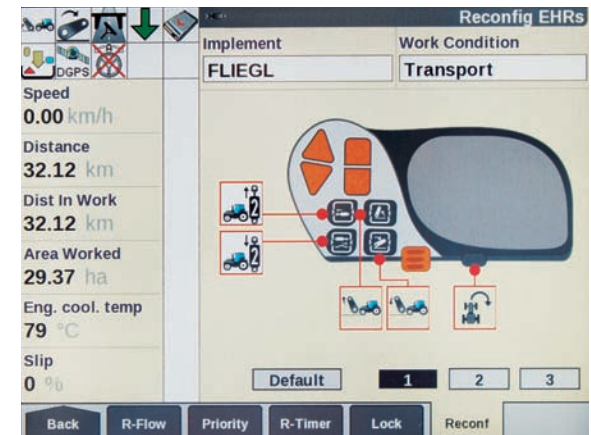
Flow rates can be just as easily programmed via the AFS Pro 700™ touchscreen monitor as the hydraulics timing; the same applies to storing operating steps in the headland management system and connecting the reversing camera. AFS track guidance and the implement screens, which are automatically displayed



Keep blind spots in view from the driver's seat with optional additional cameras.

as soon as ISOBUS-compatible machines are connected to the front or rear, are two of the main monitor functions that can be used when working in the fields.

Coupled with the time and distance-based functions provided by headland management, you have total control over your machines. What's more, you can keep an eye on productivity and fuel consumption data, and transfer it to your office PC or a USB stick.

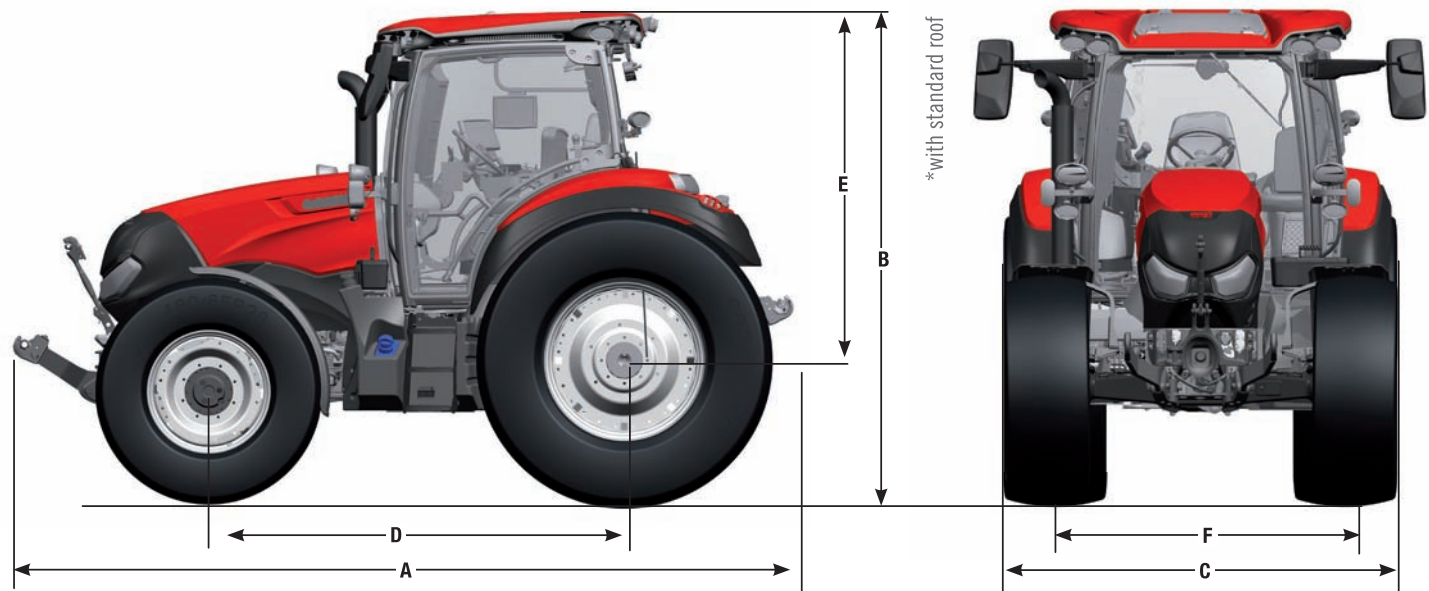


ISOBUS functions can be configured onto existing controllers such as the Multicontroller, joystick and control levers.

MODELS	VESTRUM 100 CVXDrive	VESTRUM 110 CVXDrive	VESTRUM 120 CVXDrive	VESTRUM 130 CVXDrive
<b>ENGINE</b>				
Number of cylinders / Capacity (cm <sup>3</sup> )	4 / 4,485			
Type / Emission level	Common Rail Diesel engine, turbocharger and Hi-eSCR2 only exhaust after treatment / EU Stage V			
Maximum power ECE R120 <sup>1)</sup> (kW/HP(CV))	81 / 110	88 / 120	96 / 130	103 / 140
... at engine speed (rpm)	1,700 - 1,900			
Rated power ECE R120 <sup>1)</sup> (kW/HP(CV))	74 / 100	81 / 110	88 / 120	96 / 130
... at engine speed (rpm)	2,200			
Maximum torque (Nm @ 1,300rpm)	520	551	610	630
Fuel tank, diesel / urea (litres)	180 / 19			
<b>TRANSMISSION</b>				
CVXDrive - continuously variable transmission 40kph ECO	•			
Rear axle diff-lock type	Multi disc wet plate with management system			
Service brake	Hydraulically operated multiple wet disc brake, self adjusting			
<b>POWER TAKE OFF</b>				
Type	Shiftable with progressive electrohydraulic engagement. Auto PTO optional			
Speeds Standard (Option)	540 / 540E / 1,000 (540E / 1,000 / 1,000E or 540 / 1,000), all with optional ground drive			
... at engine speeds Standard (Option) (rpm)	1,969 / 1,546 / 1,893 (1,546 / 1,893 / 1,621 or 1,938 / 1,926)			
Shaft type Standard (Option)	1 3/8" 21 splines (1 3/8" 6 splines)			
<b>FRONT PTO AND FRONT HITCH</b>				
Front PTO 1,000 speed @ 1,920rpm	◦			
Front hitch max. lift capacity (kg)	2,300			
<b>FOUR-WHEEL DRIVE AND STEERING (DRIVELINE)</b>				
Type	Electrohydraulic with management system, differential lock as standard			
Front axle suspension	◦			
Min. turning radius <sup>3)</sup> track setting 1,830mm (m)	4.5			
<b>HYDRAULIC SYSTEM</b>				
System type	Variable displacement, pressure flow compensated pump			
Max. pump flow rate / System pressure (l/min / bar)	110 / 200			
Control type	Electronic Hitch Control (EHC) with cushion ride control			
Max. lift capacity / OECD lift capacity through range @ 610mm (kg)	5,600 / 4,200			
Max. number of rear remote valves / mid mount valves with electronic joystick	4, of which 2 mechanical are standard plus 1 or 2 mechanical or 1 or 2 electrical, power beyond / 3 electrical			
Category type	Cat II / III N			

MODELS	VESTRUM 100 CVXDrive	VESTRUM 110 CVXDrive	VESTRUM 120 CVXDrive	VESTRUM 130 CVXDrive
<b>STANDARD TYRES <sup>2)</sup></b>				
Front			440/65 R28	
Rear			540/65 R38	
<b>WEIGHT AND DIMENSIONS <sup>3)</sup></b>				
Approximate shipping weight / Permissible total weight (kg)			5,500 / 8,800	
A: Max. length from front link to rear link (mm)			4,784	
B: Total height (standard roof / low roof / low roof with panoramic high visibility window) (mm)			2,835 / 2,690 / 2,715	
C: Total width across rear fenders with extension (mm)			2,228	
D: Wheel base standard (mm)			2,490	
E: Height at centre of rear axle (standard roof / low roof / low roof with panoramic high visibility window) (mm)			2,100 / 1,955 / 1,980	
F: Track setting front / rear (mm)			1,446 - 2,154 / 1,530 - 2,154	

<sup>1)</sup> ECE R120 correspond to ISO 14396 and 97/68/EC    <sup>2)</sup> other tyres on request    <sup>3)</sup> With 320/85 R24 front tyres, 460/85 R30 rear tyres and track setting front 1,752mm / rear 1,630mm  
● Standard Equipment    ● Optional Equipment




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 Safety never hurts! Always read the Operator's Manual before working with 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 **AKCELA** lubricants.



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