

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

# VESTRUM CVXDRIVE

100 - 130 HP TRACTORS



**MACHINE  
OF THE YEAR 2019**



## GREAT FEATURES FOR

### > TRANSPORT:

- 40km/h at 1,700 rpm means low fuel consumption
- Suspended front axle for a comfortable ride and better traction

### > LOADER WORK:

- Highly durable front axle with a payload of 3,500 kg
- Comfortable operation via an electronic hydraulic joystick
- Tight turning radius of 4.5 m for perfect agility

### > FIELD OPERATION

- Optimized chassis layout for a close installation of the front linkage
- Up to 7 remote valves to handle all implements
- Rear linkage with up to 5,600 kg lifting power
- Fully integrated and multifunctional front end
- Headland Management Control II and ISOBUS compatibility



# COMPACT MEETS COMFORT

The Vestrum CVXDrive – as varied as your tasks

### FUEL FRUGAL AND POWERFUL

- 4-cylinder common rail engine with intercooling and Wastegate turbocharger, 16 valves, 10 HP additional power without boost
- 100-130 HP rated power
- 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

### FULLY INTEGRATED FRONT MOUNTING SYSTEM

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



### 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 110 l/min pump capacity
- 5,600 kg 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
- Continuously-variable transmission with 0-40km/h stepless speed range
- Active hold feature for safety on slopes

### SMOOTH RIDE – TIGHT TURNS

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

We build tractors which perform in even the toughest everyday conditions and provide the flexibility to handle 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 series stands out from the crowd, combining compact dimensions of a manoeuvrable four-cylinder tractor with the premium cab comfort design of larger Case IH models. The result is the first Case IH tractor in the 100 HP class with the continuously variable CVXDrive transmission.

A jury of editors from European agricultural magazines awarded Vestrum CVXDrive the title "Machine of the Year 2019".



**MACHINE  
OF THE YEAR 2019**

# 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 Vestrum CVXDrive engine type has already demonstrated outstanding efficiency in the DLG PowerMix.

## “MR CLEAN” POWERED BY FPT

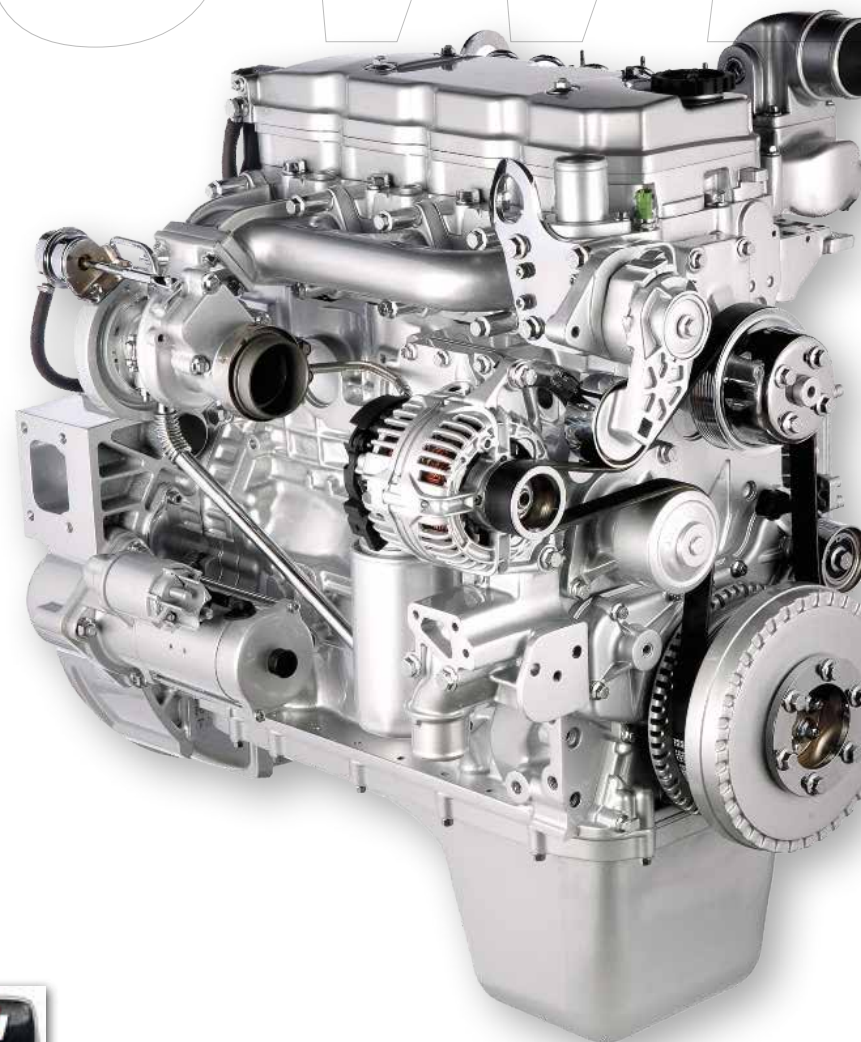
The 4.5 l engine uses a common rail injection system and has a performance range from 100 to 130 HP at rated engine speed, with 110 to 140 HP maximum power from 1,700 to 1,900 rpm. A highly-advanced wastegate turbocharger and downstream intercooler give the engine “buffalo characteristics”, with a strong torque increase at low engine speeds.

## PATENTED HI-ESCR II EXHAUST GAS TREATMENT SYSTEM

All Vestrum CVXDrive models meet EU Stage V emission standards, meaning that particulate matter has been reduced by a further 40%. At the heart of the new system lies the multi-patented HI-eSCR2 technology from FPT. The intelligent engineering operates without an externally-cooled exhaust gas recirculation system, and performs its function completely maintenance-free. All components have been integrated in a compact arrangement under the bonnet, therefore allowing an excellent view of the front hitch and the area between the axles.

## BENEFITS

- FPT engine technology from 100-130 HP (rated power), all Stage V compliant
- Patented Hi-eSCR2 exhaust gas treatment system
- Up to 10 HP additional power on all models
- Tanks for 180 litres of diesel and 19 litres of AdBlue
- Industry-leading 600 hour service interval



# THE MOST EFFICIENT WAY TO WORK

CVXDrive continuously variable transmission



## SIMPLE TO OPERATE

Set up the speed –  
APM takes care of the rest

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 Multicontroller is activated by the operator, the transmission will accelerate continuously from 0-40km/h. The key feature here is that no complicated preselection process is required when switching between Multicontroller and throttle.

### PERFECT FUSION OF FUEL EFFICIENCY AND POWER

At the start of the millennium, Case IH enjoyed great success with its revolutionary Automatic Productivity Management system (APM). The constant matching of engine speed and CVXDrive transmission made it possible to significantly reduce fuel consumption. Today, those benefits remain.

### BENEFITS

- CVXDrive continuously variable transmission with 0-40km/h ECO capability and fully-automatic range change under full draft load
- Automatic Productivity Management (APM) for optimum efficiency
- Automatic parking brake
- Active Hold: holds the tractor stationary with/without load, without applying the brakes

# A CAB WITH THE WOW FACTOR!

Climb aboard and enjoy the comfort



Multicontroller armrest

Excellence both outside and inside: The new Vestrum CVXDrive leaves a great first impression, one that's enhanced when you take a seat. This cab creates a workplace to make you feel good, forming a large part of the exceptional comfort provided by the Luxxum tractor design.

## THOUGHTFUL TOUCHES MAKE ALL THE DIFFERENCE

Hard work should be rewarded, and the Vestrum CVXDrive cab doesn't let you down. All the main settings can be adjusted from the AFS PRO 700 terminal, 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 configuration options like an air conditioning system, electrically adjustable and heated rear mirrors, and a range of air suspension comfort seats ensure stress-free work, even during long days.

---

## BENEFITS

- Premium comfort in the mid-range 4-cylinder segment
- Intuitive Multicontroller armrest for ease of use
- Optional cab and front axle suspension for a supremely comfortable ride
- Up to 14 LED work lights available

# FULL STEAM AHEAD

A hydraulic system for even the heaviest of jobs

Whether you use heavy implements or work with power-hungry equipment, the hydraulics and implement connections on the Vestrum CVXDrive meet virtually any need, large or small.

## THERE'S ALMOST NOTHING IT CAN'T LIFT

The sturdy rear linkage, either Cat II or III N, provides up to 5,600 kg in lifting power in combination with the 110 l/min PFC pump, so even heavy implements for cultivation can be used with a minimum of effort. An EHC with electronic position and traction control is as much a part of the standard package as the Active Ride Control. Optional available Power Beyond port delivers up to 110l/min of oil.

## FULLY-INTEGRATED FRONT LINKAGE

The optional front linkage is integrated unobtrusively into the front axle mount and lifts up to 2,300 kg. Front linkage management is available on the Vestrum CVXDrive models.

## BENEFITS

- Rear linkage with up to 5,600 kg lifting power
- Front linkage with 2,300 kg lifting power
- Hydraulic pump with up to 110 l pump capacity
- Up to 7 remote valves
- 3-speed PTO, optional ground drive
- External controls for linkage and front PTO
- Loader ready ex factory




## LESS REPETITIVE, MORE PRODUCTIVE

Headland Management Control II automates workflows for less driver fatigue and higher productivity. ISOBUS III for best efficiency; the attached implement controls, for example, tractor speed, hitch raise/lower and PTO speed.

| MODELS  | VESTRUM 100 CVXDrive  | VESTRUM 110 CVXDrive | VESTRUM 120 CVXDrive | VESTRUM 130 CVXDrive |
|---|---|----------------------|----------------------|----------------------|
| <b>ENGINE</b>   | FPT   |                      |                      |                      |
| 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 @ 1,300 rpm)   | 520   | 551                  | 610                  | 630                  |
| Fuel tank, diesel / urea (litres)   | 180 / 19  |                      |                      |                      |
| <b>TRANSMISSION</b>   |   |                      |                      |                      |
| CVXDrive - continuously variable transmission 40 km/h 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 electro-hydraulic 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 @ 1,920 rpm   | ○   |                      |                      |                      |
| Front hitch max. lift capacity (kg)   | 2,300   |                      |                      |                      |
| <b>FOUR-WHEEL DRIVE AND STEERING (DRIVELINE)</b>                              |   |                      |                      |                      |
| Type  | Electro-hydraulic 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 @ 610 mm (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  |                      |                      |                      |
| <b>STANDARD TYRES <sup>2)</sup></b>   |   |                      |                      |                      |
| Front   | 480/65 R28  |                      |                      |                      |
| Rear  | 600/65 R38  |                      |                      |                      |
| <b>WEIGHT AND DIMENSIONS <sup>3)</sup></b>                                    |   |                      |                      |                      |
| Approximate shipping weight / Permissible total weight (kg)                   | 5,500 / 8,800   |                      |                      |                      |
| Max. length / Total height Low- / Standard-roof / Minimum width (mm)          | 3,790 / 2,730 / 2,835 / 2,288   |                      |                      |                      |
| Wheelbase / Track setting front / Track setting rear (mm)                     | 2,490 / 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 standard tyres

WWW.CASEIH.COM  
 CNH UK Ltd., Cranes Farm Road, Basildon, Essex SS14 3AD  
 www.caseih.com - Free phone 00800 22 73 44 00

 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.

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