



OPTUM[®]



AFS CONNECT OPTUM

CASE IH

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3 Models | 240–302 PTO HP*

Case IH AFS Connect Optum series tractors redefine all-purpose by delivering innovative design, versatility, horsepower and data-driven efficiency to meet your demands. Customize precision farming with the Advanced Farming Systems (AFS) Vision Pro operating system, which delivers integrated solutions on everything from haulage and roading to tillage, planting and seeding to hay and forage applications. It's all the technology and power you need – in one all-purpose package.

“The controls themselves are very user friendly, and the comfort is amazing – it's nicer than the pickup I drive.”

Dean Schmit, Oakes, ND



AFS CONNECT OPTUM

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ENGINEERED TO MEET YOUR DEMANDS

COMFORT

A design with the operator in mind. Experience a more comfortable ride, a more spacious cab, and a more spacious view that exceeds industry standards.

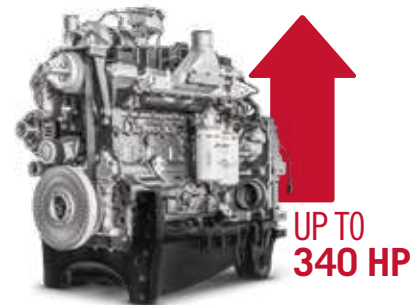
- MultiControl Armrest
- Reactive steering
- Large, quiet cab
- Best-in-class seat options
- Standard suspended cab and front axle



POWER

Proven engine design that provides the power you need, coupled with a transmission that delivers power in a fuel-efficient package.

- 271 – 340 engine HP
(peak: 290 – 340 engine HP)
- CVXDrive™ transmission
- 6.7-L, 6-cylinder engine



VERSATILITY

Designed to meet the demands of both row crop and high-volume hay producers, the AFS Connect Optum tractor proves its value on every farm.

- 4-speed rear PTO (540/540E/1000/1000E)
- Hydraulic flow of up to 58 gpm (220 L)
- Front and rear hitch options
- Wide range of tires available



TECHNOLOGY

Packed with the latest and most powerful technology, AFS Connect Optum tractors come equipped with the most Advanced Farming Systems to meet your farm's data-driven needs.

- AFS Pro 1200 display
- AFS AccuGuide™ autoguidance
- ISOBUS Class 3 technology
- Advanced end-of-row technology





DESIGNED FOR COMPLETE COMFORT

Comfort is key to work effectively and efficiently. AFS Connect Optum series tractors are designed with operator comfort in mind, because we know how hard those long hours can be.

CAB ENTRY

- **Wider steps** provide a secure platform for entry and exit.
- **Aluminum steps** are sturdy and secure.
- **Self-cleaning design** helps keep the cab clean.
- **Adjustable step depth** on the bottom two steps allow you to tailor the steps to the operator's needs.

FIRST-CLASS CAB COMFORT

- **Cab and front axle suspension** are standard on all AFS Connect Optum tractors. Add an optional hydraulic cab suspension for an even more comfortable ride on the road and in the field.
- A **spacious, quiet cab** is 7.5% larger than previous models and reduces noise levels to, as low as, 66 dBA.
- Choose from three seat options, all designed for maximum comfort:
 - **Deluxe Fabric or Leather Comfort:** Features a low-frequency suspension and dynamic dampening system with automatic shock absorbers. The seat includes both heating and venting technology, while the backrest extension swivels with the operator for easy rear viewing and added comfort
 - **Active Leather Comfort:** Combines active suspension, a dynamic dampening system, and active air pressure that makes automatic adjustments. The seat holds the operator in a neutral position even in rough terrain. It features automatic weight adjustments and active ventilation and heat technology for a comfortable ride
- Small details in the cab make a big difference:
 - An optional **in-cab coolbox** to keep you cruising through hot afternoons
 - More **electrical outlets** to keep your phone, tablet and gadgets powered
 - Multiple areas to mount extra monitors or tablets





OUTSTANDING VISIBILITY

- **Low mount front windshield wiper** for an unbroken line of sight in the field or on the road.
- Up to **four optional cameras** for additional visibility.
- Choose from **multiple lighting packages** to provide brighter, longer-lasting light to meet the demands of any job — day or night.

	STANDARD LIGHTING	OPTIONAL LIGHTING
Hood Work Lights	6 Halogen	6 LED
Belt Line Work Lights	2 LED	4 LED
Rear Fender Work Lights	2 LED	N/A
Cab Roof Mounted Work Lights	8 LED	10 LED
Road Lights	2 LED Hood Mounted	2 LED Hood + 2 LED High Mounted

An optional transport lighting package is available containing 2 additional high-mount, low-beam road lights.

ENHANCED SAFETY

- **Reactive steering** helps return the wheels to the center position which makes transporting at high speeds easy.
- Simply shift the shuttle lever to park for a spring applied, hydraulically released **worry-free parking brake application**.
- The **hydraulic PTO brake** stops the movement of powered implements as soon as the PTO is switched off.
- The **Active Stop feature** provides a powered neutral that prevents tractor movement, even with fully loaded trailers on steep slopes. This feature is also useful when attaching implements to the hitch and for chores that require frequent starts and stops.

PRODUCTIVITY AND CONNECTIVITY BUILT INTO YOUR TRACTOR

With AFS Connect, you don't need to be in the cab to know what's happening in your fields. Coach operators can check on equipment performance in real time with remote display viewing on the AFS Pro 1200 display. The AFS Connect website and app allow you to view continually updating data as it uploads straight out of the field. Save time and make better, more informed decisions by connecting to your operation at any time.

FULL REMOTE VISIBILITY

- **Remote Display Viewing:** No matter where they are, a farm manager or dealer can easily see exactly what the operator is seeing on the screen in the tractor cab.
- **Remote Service Support:** There's no time for downtime. Work with your local Case IH dealer to remotely diagnose maintenance and service issues.
- **Remote Software Updates:** Your local Case IH dealer can remotely update your operating firmware so you can take advantage of new features, functionality and enhancements.

MORE PRODUCTIVITY

- **Headland Management Control II:** An innovative, productivity-boosting headland management system automates repeated processes. Record commands in real time while you work or input commands on the AFS display, making end of row turns simple even in the most complicated operations.
- **AFS AccuTurn™ Pro:** Work in tandem with AFS AccuGuide to provide hands-free steering for automatic, repeatable end-of-row turns that maximize your vehicle's turning accuracy and overall efficiency.
- **ISOBUS Class 3:** The most advanced international compatibility standard that allows for both implement automation and for the implement to control certain tractor functions.





SETTINGS JUST FOR YOU

The AFS Pro 1200 monitor gives you an overview of all tractor functions. It's easy to optimize the hydraulics, PTO, engine and transmission. Just use the Case IH encoder and shortcut keys for total control of your tractor's functions.



VIDEO INPUT

The monitor can show live video from up to four cameras. One camera at the front and one at the rear can be factory-installed. A wireless camera is also available to be mounted on the rear of large implements such as a trailer or baler. This makes backing up with large implements easier than ever.



THE FREEDOM OF AUTOMATION WITH HMC II

The Optum includes as standard the innovative headland management system HMC II to automate repeating processes. To increase productivity, processes can be recorded in real time while you work, or by inputting commands on the AFS monitor. Save valuable time in the headland and concentrate on your work.



THE FREEDOM OF CONTROL

ISOBUS is a modern tractor/implement interface which allows the implement's operating screens to be displayed on the AFS Pro 1200 monitor. You don't need another monitor, saving you money. ISOBUS III allows the implement to control elements of the tractor, for example; the remote valves, PTO, the position of the rear hydraulics and ground speed.



THE FREEDOM OF CHOICE

The AFS Pro 1200 monitor allows you to choose from over 100 functions to assign to eight freely-programmable keys. Functions like radio volume, air conditioning fan speed or to answer/end phone calls can then be easily operated using the programmable buttons on the MultiControl Armrest or on the Integrated Control Panel (ICP). Your drivers always have the ideal settings at their fingertips.



PERFORMANCE MONITORING

The monitor also records total performance and daily stats. All data is sent directly from the AFS Pro 1200 monitor to your My.CaseIH.com platform for further analysis.



PRODUCTIVITY, CONNECTIVITY AND PROFITABILITY

AFS Connect provides an end-to-end solution that allows you to remotely monitor and manage your farm and fleet. Optimize performance and productivity. Visualize equipment and agronomic data to help you make more informed decisions for your operation. With the AFS Connect app on your phone or tablet, successfully manage your operation anytime, anywhere. AFS Connect Optum series tractors come with a standard five-year subscription to AFS Connect.

GET MORE DONE EACH DAY

Easily organize your fields, applications and agronomic data to gain better insights.

- View every field activity, from spring tillage through harvest.
- Generate coverage maps and visualize multiple layers of agronomic data to make more informed decisions.
- Remotely share guidance lines, boundaries and prescriptions.

WORK SMARTER BY TRACKING EQUIPMENT

Achieve peak performance by maximizing uptime and efficiency.

- Receive notifications and view critical operating parameters.
- Monitor current and historical machine performance and coordinate your Case IH machines.
- Plan and execute maintenance on connected vehicles.
- Enable remote display viewing to share on-screen cab information with an authorized farm manager or dealer.

OPTIMIZE ANYWHERE

Gain relevant agronomic insights that connect you to your farm down to the field level. With a My.CaseIH.com account, you can:

- Track critical metrics from your in-field equipment, visualize agronomic data layers and document yield-limiting pests, weeds and diseases from your mobile device.
- Maintain tasks remotely, including all planting, spraying and harvest activities.
- Download the AFS Connect Farm app at no cost to you on your Android™ or Apple® iOS device — including smartphones and tablets.

THE AFS CONNECT APP

View and monitor your equipment and field information in one place, all on your mobile device or tablet.



EQUIPMENT INFORMATION AT YOUR FINGERTIPS

When you have questions about Case IH equipment maintenance, there's no time to lose getting back in the field. **My.CaseIH.com** is your destination for Case IH product support, including free operators manual downloads, AFS training videos, how-to tutorials and maintenance tips to help you through questions or situations you encounter every day.

Create a free My.CaseIH.com account and use the same login credentials to access the features of AFS Connect and the AFS Connect app today.



INTUITIVE OPERATION

Inspired by the same easy control features of Case IH Magnum™ and Steiger® series tractors, the AFS Connect Optum tractor control center includes a **MultiControl Armrest** and **AFS Pro 1200 display**, both integrated into the driver's seat armrest for easy reach.

- The **MultiControl Armrest** puts all major tractor controls at your fingertips. It includes the MultiFunction Handle, which includes commonly used commands controlled through backlit buttons.
- The **AFS Pro 1200 display** features a crystal clear, anti-glare, LCD, 12 in. touchscreen display that provides critical information in an easy-to-understand format. With just a few touches, you can control and adjust key machine functions, including:
 - Operator preferences
 - Tractor calibration
 - Implement settings
- The **AFS Vision Pro operating system** lets you customize and configure your tractor settings. This includes **seven programmable-run screens and split screen viewing** to create a sophisticated environment that puts you in control.



- A** Laminated Front Windshield
- B** Pillar Display Instrument Cluster
- C** Low Mount Front Windshield Wiper
- D** Forward/Reverse Shuttle
- E** Advanced Multi Zone HVAC System

- F** Brake Pedals
- G** Foot Speed Control
- H** Ergonomic MultiFunction Handle
- I** Roof Mounted Monitor Rail and Optional Window Bar
- J** AFS Pro 1200 12-inch Monitor

- K** Joystick
- L** MultiControl Armrest
- M** Optional Leather Heated and Ventilated Seat

Not Shown:

Optional In-cab Coolbox



PROVEN ENGINE PERFORMANCE

AFS Connect Optum series tractors balance strength and efficiency with horsepower to deliver power for any application, including tillage, planting, haulage, mowing and baling. It begins with the Case IH FPT 6.7-L engine – the same proven engine technology found in Maxxum®, Puma® and Magnum™ series tractors.

- AFS Connect Optum series tractors include a **low idle feature** to reduce fuel consumption and operating costs. When minimal power is required and the operator exits the cab, the engine idle is reduced from 850 RPM to 650 RPM.
- Patented **Tier 4 B/Final – Stage V** emissions is maintenance free and **requires no exhaust gas recirculation**.

- The six cylinder 6.7 litre FPT engine with high-pressure Common Rail injection is **equally suited to field work and road transport**. The unique design of engine block and oil pan was tailored specifically for heavy load applications. Thanks to the intelligent APM engine/transmission management system, the powerful engine **operates at low RPM, raising efficiency to the next level**.
- Big tanks for long days.
 - AFS Connect Optum series tractors come standard with a 166 gallon capacity diesel fuel tank. Diesel Exhaust Fluid (DEF) tanks come with a 25.4 gallon capacity. The wide filler opening allows for faster, easy filling from ground level. Plus, diesel and DEF tanks are located at the left side steps of the tractor to make refilling easy and fast

- Details for proven performance.

- AFS Connect Optum series tractors operate with a Case IH FPT 6.7-L, 6-cylinder, turbocharged, aftercooled engine. Inlet and exhaust manifolds are positioned on opposite sides of the cross-flow cylinder head, allowing the use of large intake and exhaust ports for optimum air/fuel mixing and combustion



PRODUCTIVE POWER IN THE FIELD AND ON THE ROAD

Customize your investment with a range of PTO, hitch and hydraulic pump options to meet your needs.

- **PTO options.**
 - **Standard 4-Speed Rear PTO:** The in-cab, electronically shiftable 4-speed rear PTO includes the 540, 540E, 1000 and 1000E modes for maximum productivity, versatility and efficiency
 - **Optional 2-Speed Front PTO:** The optional in-cab, electronically shiftable 2-speed PTO includes the 1000 and 1000E modes for fuel savings. Available with clockwise or counterclockwise rotation to meet the needs of any implement
 - Additionally, **Economy PTO** (front and rear options) maintains PTO speed at a lower engine RPM
- **Hitch options.**
 - **Rear 3-Point Hitch:** Rear hitch options offer the flexibility to meet the needs of demanding 3-point hitch applications. Max lift capacity of the rear 3-point hitch is 19,180 lb.
 - **Front 3-Point Hitch:** Front hitch options allow triple mowers and other implements to be mounted to the front of the tractor – for covering more acres per hour. Front hitch lift capacity is 9,892 lb.
- **Hydraulic pumps.**
 - Hydraulic pump options of 43.5 gpm or 58 gpm provide more flow at lower engine RPMs
 - **Choose four (standard) or five (optional) electronic remotes**, each capable of delivering 36.7 gpm of flow. Add extra power and a case drain for additional versatility for tillage, planting and spreading applications
 - **Three additional, mid-mounted remote valves** are optional to control attachments on the front hitch, such as triple mowers





POWER TO THE GROUND

Get up to speed smoothly and without torque interruption with CVXDrive continuously variable transmission, standard on AFS Connect Optum series tractors. It's the same proven technology used in Maxxum, Puma and Magnum CVXDrive series tractors.

CVXDRIVE

- **Automatic Productivity Management (APM)** provides maximum fuel efficiency by managing engine RPM and transmission ratio.

CUSTOMIZABLE TRANSMISSION SETTINGS

Case IH software engineers have enhanced the performance and driveability of the CVXDrive with new APM control features that deliver smoother and more responsive characteristics. Drivers can choose between three pre-defined settings or customize the settings according to their needs, easily and quickly via the AFS Pro 1200 display.

- Acceleration/deceleration
- Shuttling speed
- Drive pedal behavior

ADVANTAGES

- Four forward ranges and two reverse ranges to optimize mechanical efficiency.
- Double-clutch technology delivers a smooth ride and higher fuel efficiency.
- Double planetary final drives increase durability and reliability in more demanding applications.
- Automatic range shift maximizes mechanical efficiency at working field speeds.
- Three programmable target speed settings.
- Ultimate transmission speed control for all applications, from 98 ft. per hour to 31 mph.



ALL-PURPOSE TRACTOR, MULTI-PURPOSE APPLICATIONS

AFS Connect Optum series tractors are designed to meet your demands for power, comfort and hydraulic capacity. Combined with fuel-saving technologies, these tractors deliver efficient power and maximum uptime in a variety of applications.

PLANTING & SEEDING

- Up to 58 gpm hydraulic flow and up to five remote valves give you the capability to run planters and seeders. Plus, AFS AccuGuide autoguidance maintains straight, repeatable rows.

HAY & FORAGE

- AFS Connect Optum series tractors have the power and versatility to handle the demands of large-volume hay and forage applications, including triple mowers and large square balers.

HAULAGE

- AFS Connect Optum series tractors come standard with reactive steering, cab suspension, front axle suspension, front axle brakes, and hydraulic trailer brakes. Options such as an exhaust brake and pneumatic trailer brakes make the AFS Connect Optum the ultimate machine for slurry and grain cart applications.

TILLAGE

- With up to 340 maximum HP and many available tire combinations, AFS Connect Optum series tractors can handle the most demanding tillage applications. In addition, AFS AccuGuide autoguidance eliminates skips and overlap, increasing efficiency.





SERVICEABILITY AND SUPPORT

Get the support where and when you need it with your knowledgeable Case IH dealer. New features on the AFS Connect Optum tractor allow technicians to better support you and your fleet remotely — and in real time. And when you need service, they are ready to help you eliminate unnecessary downtime. There is no more waiting for a service truck to drive to the farm to diagnose an issue or driving around looking for the right part.

EASY MAINTENANCE

Checking transmission oil, hydraulic fluid and filters is easier than ever. Ground-level fluid checks help you stay on top of maintenance as quickly as possible. Industry-leading 750-hour engine oil and 1500-hour transmission service intervals keep you in the field.



MODEL	OPTUM 270	OPTUM 300	OPTUM 340
POWER			
Type	6-cylinder, Tier 4 B/Final – Stage V		
Engine HP ¹	271	300	340
Maximum Engine HP ²	290	313	340
PTO HP ³	240	267	302
Displacement	6.7 L (411 cu. in.)		
Number of Valves	4 per cylinder, 24 total		
Aspiration	Electronic variable geometry turbocharger (eVGT)		
ELECTRICAL			
Alternator (Standard/Optional)	200 amp / 250 amp		
Battery	12-volt, 1,300 cca		
TRANSMISSION / PTO			
Standard	31 mph (50 kph) CVXDrive		
Creeper Speeds @ Rated Engine RPM	Minimum target speed – 98 feet per hour (0.03 kph / 0.018 mph)		
PTO Speed	540/540E/1000/1000E electronic shifttable		
AXLES			
Standard Rear Axle	119 in. bar		
Rear Axle Options	112 in. bar		
Bar Axle Diameter	4.125 in. (105 mm)		
Suspended Front Axle	Standard		
Rear Axle Tread Adjustability	60.6–124.8 in. (1540–3170 mm)		
MFD Tread Adjustability	60.1–121.7 in. (1526–3090 mm)		
Wheelbase—Standard & Suspended Front Axle	117.3 in. (2995 mm)		
HYDRAULICS / HITCH			
Type	Closed center, pressure flow compensating (PFC)		
Remotes—Electronic (Standard / Optional)	4/5, plus power beyond—option		
Main Implement Pump Max Flow	43.5 gpm (165 L/min.) or 58.9 gpm (223 L/min.)		
Max Flow Available at One Remote	36.9 gpm (140 L/min.)		
3–point Hitch Category	Cat 3 telescopic ends or Cat 4N telescopic ends		
Hitch Lift Capacity (Max)—Standard, 4.72 in. (120 mm) Diameter Lift Cylinders	26,526 lb. (12032 kg) ⁴		
Hitch Lift Capacity (Whole Range)	24,378 lb. (11058 kg) ⁴		
Mid-Mount Valve—Optional	1 or 3 valves available		
CAPACITIES			
Fuel Tank	166 gal. (630 L)		
Diesel Exhaust Fluid (DEF) Tank	25.4 gal. (96 L)		
Engine Oil with Filter	20 qt. (19 L)		
Hydraulic Fluid	39 gal. (148 L)		
CAB			
Cab Suspension	Standard		
Glass Area	63.2 sq. ft. (5.9 m ²)		
Cab Sound Level	66 dBA		
WEIGHT			
Average Standard Weight with Standard Front Axle	24,603 lb. (11160 kg) – Configuration: 710/75 R42 rear tires, 650/60 R34 front tires, bar axle, front three point linkage without front PTO, 25% fuel level		

¹At Rated 2,200 RPM ISO per ECE R120 (CV) ²At 1,800 RPM ISO per ECE R120 (CV) ³At Rated 2,100 RPM per SAE ⁴Measured at ball ends



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