

# PUMA

TRACTORS 140 -225 HP



**CASE IH**

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## EFFICIENT POWER

### For profitable farming

At Case IH, we're proud of our successful history, but we're also focused firmly on the future. Through the brands that make up our heritage, we have supported farming for generations; providing robust, reliable, highly productive and efficient farm equipment, engineered with precision and passion by a team that knows agriculture inside out.

Our commitment will never change, but farmers' needs are constantly evolving, so while those characteristics remain at the core of Case IH products, our research and development team never rests on its laurels. That's why Puma tractors, well-established in the market with a reputation for efficiency, ease of operation and

premium engineering, have undergone significant updates. It's nothing less than you would expect from the name behind innovations whose introductions have helped move farming forward. Developments such as Axial-Flow® single-rotor threshing and separation, Quadtrac articulated rubber track tractor technology, and CVT have led the way in bringing continuously-variable transmissions to the tractor sector.

Puma has a well-established reputation as a premium product in terms of tractor quality. With proven semi powershift, full powershift or CVT continuously-variable transmissions, and the latest FPT engine technology, Puma retains the high standards set by its

predecessors. The Puma series, that includes seven models from 140-225 CVT, sits squarely in territory that means it suits the most demanding applications in both arable, contracting and livestock farming situations.

Furthermore, as with all Case IH developments, it takes its class forward in multiple areas – transmission, suspension, controls, seating, lighting and more. What you get as a result, is the reassurance of a proven product with enhancements aimed at giving your business a sharper edge; thereby repaying your investment quicker than ever before.

**PUMA. EASY TO OPERATE MORE EFFICIENTLY.**

MODELS	Rated power ECE R120 <sup>3)</sup> @ 2,200 rpm (kW/hp)	Maximum power ECE R120 <sup>3)</sup> Power Management (kW/hp) @ 1800-1900 rpm	Max. pump flow rate FPS / CVT (l/min)	Max. lift capacity (kg)	Wheelbase (mm)
PUMA 140	104 / 142	131 / 178	113 PFC	6689 / 8259	2734 / 2789
PUMA 155	116 / 158	142 / 193	113 PFC	6689 / 8259	2734 / 2789
PUMA 180	134 / 182	172 / 234	120 - 150 PFC	6,995 / 10,460	2884
PUMA 210	157 / 213	178 / 242	120 - 150 PFC	6,995 / 10,460	2884
PUMA 165 CVT	123 / 167	158 / 215	120 - 150 PFC	6,995 / 10,460	2884
PUMA 195 CVT	145 / 197	177 / 241	120 - 150 PFC	6,995 / 10,460	2884
PUMA 225 CVT	165 / 224	185 / 251	120 - 150 PFC	6,995 / 10,460	2884



## TOP TECHNOLOGY

For those who demand more

### ADVANTAGES

- ▶ Premium driving comfort and intuitive operation
- ▶ Latest lighting technology makes it easier to work at night
- ▶ Headland Management Control II to reduce operator fatigue
- ▶ Puma CVT supports latest ISOBUS Class III technology

### TRAVEL IN TOTAL COMFORT

A range of seat options for Puma tractors means operators benefit from the best ride in the industry. The Puma and Puma CVT models boast an extremely comfortable, quiet and ergonomically designed cab, with excellent all round-visibility. This operating concept is tailored to the needs and wishes of our clients in the most effective way possible, for minimum familiarisation time and maximum work results!

### INTUITIVE OPERATION PUTS YOU IN CONTROL

The Multicontroller armrest, ICP operator's panel and AFS® Pro 700 touchscreen monitor combines all the key tractor functions. From selecting the ground speed or the industry leading Headland Management Control II, to operating the front and rear hitch – with the Multicontroller armrest, you have everything under complete control.

### POWER AND EFFICIENCY

The powerful 6.7 litre, 6-cylinder engine is designed to generate power and optimise fuel efficiency. This is achieved across the Puma range by utilizing the Tier 3 engine power management system, which is part of the SPS, FPT and CVT drivetrain options.

### SPS, FPT OR CVT TRANSMISSION - THE CHOICE IS YOURS

Puma models have the option to be fitted with semi powershift, full powershift or a continuously variable transmission. The Active Stop on CVT models holds the tractor on any slope without needing clutch or brake. The DCT™ double-clutch technology ensures smooth travel and a high level of fuel efficiency.

### HIGH PERFORMANCE HYDRAULICS

Our Puma range has an oil delivery rate of up to 150 l/min. The Hydraulics on these tractors are designed for heavy-duty work and have a maximum hitch capacity of 10,460 kg on the rear linkage. A total of five remote valves can be connected, with the option to fit Power Beyond to improve hydraulic efficiency.

### FEATURES THAT BRING BENEFITS

A new machinery purchase is never a simple decision unless the machine in question is going to bring about a prompt return on investment. Case IH has always recognised this, and that's evident in the improvements made to the latest Puma model. These enhancements are designed to give you more where you need it – more comfort, greater fuel efficiency, extra lighting, additional tyre options, and better vision. Things that, ultimately, will show up in your bottom line, through higher workrates, faster job completion and lower diesel bills.

### COMFORT, CONTROL AND SAFETY

The suspended front axle (optional) ensures smooth travel and improved operating comfort. Full Powershift Transmission (FPS) offers high switching quality for optimum performance. Gears can be changed without activating the clutch pedal. 19<sup>th</sup> Economy 40 kph @ 1,650 rpm gear enhances fuel efficiency, productivity and minimises noise at top road speeds. The Continuously Variable Transmission (CVT) provides ease of operation and high mechanical input for unrivaled fuel efficiency.

### PRECISE CONTROL

With the Case IH AFS systems (optional), you can maximise your efficiency by operating ISOBUS Class III-compatible devices from the cab and choose from a full range of guidance solutions, offering accuracy levels of up to 2.5 cm. The optional integrated AFS Pro 700 monitor allows you to maintain control at all times – for example the HMC II (Headland Management Control II), which makes it easier at each end of the paddock.



## A COMFORTABLE ENVIRONMENT

Quiet and calm for long days

### ADVANTAGES

- ▶ Numerous seating options
- ▶ Intuitive controls
- ▶ Excellent vision to front, sides and rear
- ▶ Choice of Cab finish options
- ▶ Cab and front axle suspension available for a perfect ride

Climb into a Puma tractor and it will quickly become apparent that it's a comfortable environment. One that's made from the very best materials. One that's been designed by engineers who've researched what a tractor operator needs, and where controls are best placed for effortless operation. The semi-active heated and ventilated leather seat with adjustable cushion and automatic seat suspension gives you the luxurious ride you would only expect from a high value car.

### A WORKPLACE WITH A FEEL-GOOD ATMOSPHERE

The latest Puma tractors take another step forward in refinement. A single-piece front screen now provides an uninterrupted forward view, with no seams

between the lower glass either side of the steering column and the main screen itself. The latest AFS terminal provides improved remote valve and headland management control, further simplifying repetitive field operations to bring about greater efficiency and reduce driver fatigue. In addition, a range of options provide three seating choices, including an industry-exclusive high back Dual Motion low frequency seat in either fabric or leather, and a premium Maximo Evolution seat with red leather upholstery and semi-active suspension.

### WORK LONGER

The cab's panoramic view provides excellent visibility all-round, while the bonnet has been designed to guarantee a perfect view of all your implements. For those days when you need to carry on working after dark, the LED lighting package will perfectly illuminate the full 360 degrees around the tractor, giving you outstanding visibility of your implements.

### Photos:

1. Puma standard comfort cab
2. Red leather Driver Seat and Multicontroller armrest
3. Front axle suspension for better driving comfort

# INTUITIVE OPERATION

Puts you in control

We know how busy you and your operators are, so we make sure you don't waste time getting used to a new control layout when you switch tractors: in every Case IH tractor, from Maxxum to Quadtrac, you will find the same control layout. The moment you sit in the cab, you know where everything is; you have all the information you need at a glance on the A-post display and all the controls at your fingertips on the Multicontroller™ armrest. Full comfort and control in no time at all.

## YOUR CONTROL STATION

The drive logic of the Case IH Multicontroller combines with the ICP intuitive control panel and the AFS® Pro 700 touchscreen monitor to put all of the tractor's functions on the armrest at your fingertips: speed selection, direction changes, throttle, AccuGuide engage, Headland Management Control, electronic remote valves, rear hitch controls, PTO, joystick ... everything is in one place and within easy reach. Operation is so logical that even novice drivers will have no problem working at their best from day one.

## OPTIMISE YOUR PERFORMANCE

The AFS Pro 700 gives you all the information you need on the tractor's performance at a glance, from fuel consumption to engine and PTO load. The touchscreen interface is easy to use and you can quickly adjust the settings for different implements and working conditions. To make it even more intuitive, you can customise the different screens to display the information most important to you.

## EVERYTHING UNDER CONTROL

The performance instrumentation cluster on the A-pillar tells you everything you need to know about the tractor – engine speed, transmission target speeds, actual ground speed, brake position and drive direction. All is clearly displayed in one place so you have everything under control.



- A** AFS Pro 700 touchscreen
- B** Multicontroller
- C** Remote valve controls incl. joystick
- D** ICP - Intuitive Control Panel
- E** Front-/rear PTO on/off
- F** Hydraulic and hitch settings



## POWER AND PERFORMANCE

Latest engine technology

### ADVANTAGES

- ▶ Engine Power Management boosts power from 178 to 251 hp
- ▶ APM Automatic Productivity Management and ECO Drive helps to cut fuel consumption
- ▶ 600 hour/12 month service interval

### YOUR CONTROL STATION

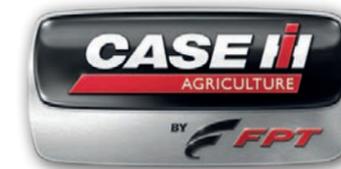
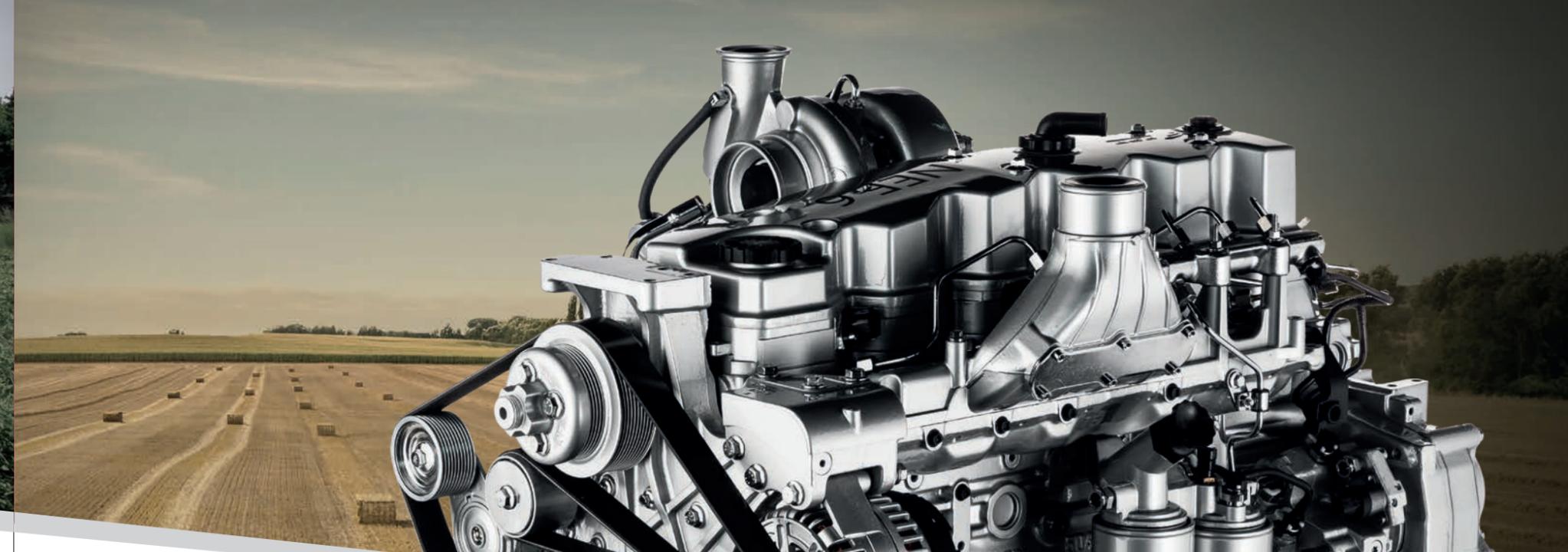
Puma tractors are built around the latest generation Tier 3-compliant FPT engines, forming the heart of a powertrain to take high-output hard work in its stride. Durable, frugal, reliable and hard-working, these are powerplants which keep on giving in horsepower, torque and dependability. The Puma range now covers a power band from 142 - 224 hp (rated), with all models benefiting from an Engine Power Management boost for PTO and transport work taking those figures from 167 - 247 hp.

### TAKES ON THE HEAVYWEIGHT JOBS – AND THE LIGHTER TASKS TOO

With a high power-to-weight ratio which allows them to be ballasted for heavy draft work yet run light for simpler tasks, these are truly universal tractors. And with 600-hour/12 month service intervals, they require the minimum of regular scheduled care. That means they spend less time in the yard and more where it matters – in the field, returning the investment you've made in them.

### APM AND ECO DRIVE – SYSTEMS THAT SAVE

All Puma CVT models benefit from Automatic Productivity Management (APM), a system which helps cut fuel consumption by adjusting the engine speed, and CVT transmission to keep PTO speed constant with the Multicontroller™ and travel pedal. The result is the best possible balance of fuel efficiency and power. Engaging ECO Drive enables minimum and maximum engine speeds to be set to match the engine performance to the task in hand, thereby minimising fuel use.





## TACKLE ANY TASK

Semi or full powershift: the choice is yours

### ADVANTAGES

- ▶ Six-speed or full powershift transmissions
- ▶ Fully automatic range change
- ▶ 40 km/h ECO at reduced engine speed or 50 km/h
- ▶ Creeper speeds available as low as 200 m/hr

Case IH recognises that no two farm businesses are the same and everyone demands different things from their tractors, especially in the transmission department, where what suits one operation may not be right for another. That's why Puma, one of the most versatile tractor ranges in the Case IH line, is offered with three transmission options.

Our Puma range offers two unique powershift options, which benefit from a 18F/6R 40 km/h semi-powershift with six clutchless changes. Our Puma range offers two unique powershift options, both of which benefit from a 18F/6R 40 km/h gear option.

The Semi-powershift provides six clutchless changes and brings with it the option to fit creeper giving the end user a 28F/12R 40 km/h. While the Full-powershift shares the same benefits as the Semi-powershift, it has further benefits of both clutchless changes and 19F/6R 50 km/h gear option.

Puma Multicontroller armrest is one of the hallmarks of Case IH top-end tractor design. The Multicontroller lever puts complete control of key tractor functions in the operator's right hand. That includes full transmission operation, with thumb-operated powershift and powershuttle control.

As with standard Puma models, Puma 140 and 155 Multicontroller tractors feature a 40 km/h six-speed powershift transmission, whereas Puma 180 and 210 Multicontroller feature a 40 km/h full powershift transmission. Both provide 18F/6R speeds, or 28F/6R where the creeper speed option is specified. A 19F/6R semi or full powershift with 40 km/h economy or 50 km/h maximum speed capability are also further options.

### THE PUMA. SIMPLE SHIFTING.

#### Photos:

1. Transmission controls in Puma models.
2. Advanced armrest control in Puma Multicontroller™ tractors.

## STEPLESS AND SEAMLESS

The Puma CVT transmission

### ADVANTAGES

- ▶ Coordination of engine, transmission and PTO
- ▶ Continuously variable transmission 40 or 50 kph ECO
- ▶ DCT™ Double Clutch Technology
- ▶ APM Automatic Productivity
- ▶ Management for best fuel efficiency
- ▶ Active Stop holds the tractor with load stationary without applying the brakes

Puma 165 to 225 CVT tractors feature the pioneering Case IH CVT continuously-variable transmission, offering stepless travel with DCT™ Double Clutch Technology for seamless power transfer and excellent fuel and power efficiency. Automatic Productivity Management (APM) fine-tunes the tractor's

settings to minimise fuel consumption. By coordinating the engine, transmission and PTO with the Multicontroller™ or the travel pedal, the ideal balance of fuel efficiency and productivity is achieved.

### STEPLESS PRODUCTIVITY

The CVT drivetrain is as efficient delivering power at creep speeds as it is at its maximum 50 kph travel speed. For even greater economy, Puma 165 to 225 CVT tractors attain 40 kph at just 1,450 rpm, and reach 50 kph at only 1,550 rpm.

### SEAMLESS SHIFTING

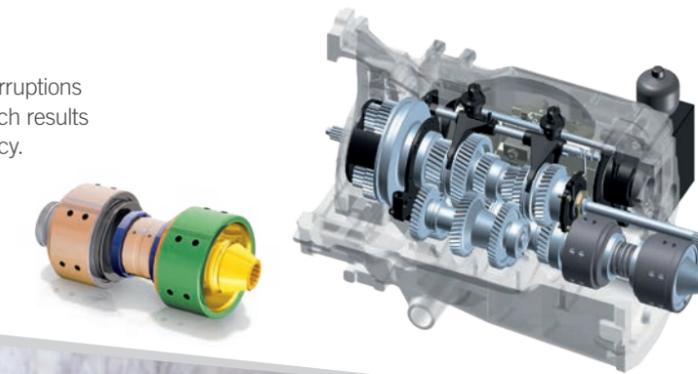
Double Clutch Technology (DCT) eliminates interruptions in the flow of power between speed ranges, which results in improved acceleration and better fuel efficiency.

### OPTIMUM EFFICIENCY

Puma CVT tractors feature APM Automatic Productivity Management, creating further fuel savings by automatically reducing engine rpm when full engine power is not required.

### ACTIVE STOP

Active Stop holds the tractor and its load stationary, even on a steep incline, and enables the operator to pull away effortlessly without using the clutch and brakes.





## A PTO PACKAGE

To power any implement

### ADVANTAGES

- ▶ Up to 4-speed PTO options
- ▶ PTO Management
- ▶ Soft Start PTO doesn't stress your implements
- ▶ Hydraulic PTO safety brake

Whether mowing, tedding, baling, spreading, spraying or drilling, different PTO-powered implements place different demands on a tractor's power take-off. Puma models (140-155) are available with a ground speed PTO for special trailed equipment and rear PTO speeds of 540/540E/1000 rpm, while models from 180 upwards offer a 540/540E/1000/1000E rpm package.

The rear PTO is driven directly from the engine flywheel for the ultimate in power transmission efficiency. Soft-start engagement gradually increases torque on the driveline as soon as sensors detect a high starting resistance, ensuring a smooth start to protect both tractor and implement.

### DIRECT POWER TRANSFER

With power for the PTO taken directly from the engine flywheel, transmission losses are minimal. For jobs with low power requirements, the 540E/1000E rpm PTO speed is attained at below 1600 engine rpm which cuts down fuel consumption and noise.

### SOFT START

Soft Start works by detecting a higher starting resistance when the PTO is engaged, and steadily increasing the torque load. A hydraulic brake stops the movement of powered implements as soon as the PTO is switched off. The hydraulically activated and electronically controlled system allows for smooth modulation and protects the components.

### HEADLAND OPERATION SIMPLIFIED

Automatic PTO management disengages the PTO when the linkage is raised and re-engages it when it's lowered. The position at which the PTO is engaged and disengaged is adjustable.

## BUILT TO HANDLE THE HEAVIEST IMPLEMENTS

Front and rear hydraulics versatility

### ADVANTAGES

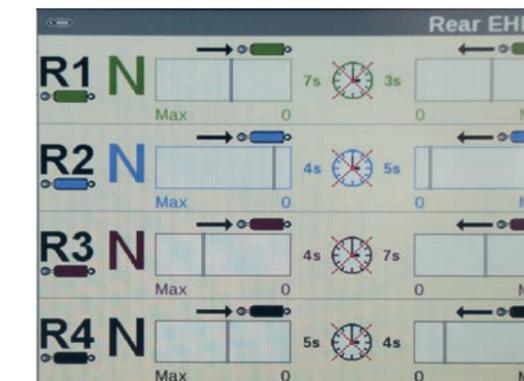
- ▶ Rear lift capacity of up to 10,463 kg
- ▶ 4 mechanical or 5 electronic remote valves option
- ▶ 3 electronic mid mount remote valves option
- ▶ New rear remote design/colour coding for easy hitching up
- ▶ External remote switches

With rear hitch capacity on Case IH Puma tractors topping at over 10 tonne on the largest models, they will lift the largest implements with ease. The hydraulic system uses an axial piston variable displacement pump with a delivery rate of up to 150 l/min on Puma models, guaranteeing fast, effective operation.

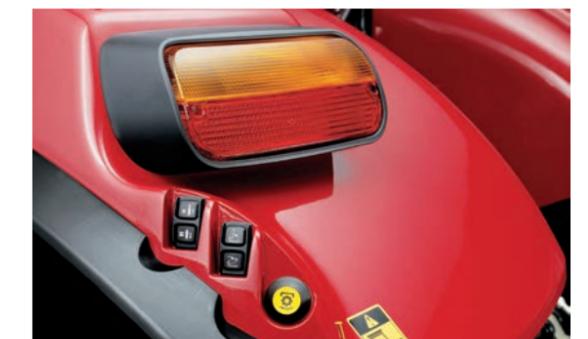
### POWERFUL HYDRAULICS

- The rear linkages of 140 and 155 models boast a maximum hitch capacity of 8,259 kg, while the larger models can lift up to 10,463 kg. This means that even the heaviest attachments can be used without any problems.
- The controls for the PTO, linkage and a remote valve positioned on the outside of the mud-guards, ensure devices can be easily attached and removed by a single operator.
- On the Puma 140-155 models, a maximum of four mechanical or four electronic remote valves are available at the rear of each machine. All models also offer up to two electronic mid-mount valves.
- Models from the Puma 180/210 range can be fitted with a maximum of four mechanical remote valves or five electronic remote valves at rear, with the option to fit three electronic mid-mount valves. In total you have up to 8 hydraulic remotes at your disposal.

- Models from the Puma CVT 165 to 225 range can be fitted with a maximum of five electronic remote valves at the rear, with the option to fit three electronic mid-mount valves. In total you have up to 8 hydraulic remotes at your disposal.
- With the electronic valves the operator has the option to select which lever operates which valve.



Control your electrical remote valves through the AFS® Pro 700 monitor



# INTEGRATED PRECISION

For efficient production

## ADVANTAGES

- ▶ GLONASS/GPS antenna
- ▶ Low cost RTX signal solutions
- ▶ Optional high accuracy RTK+ signal
- ▶ Integrated AccuGuide and AutoGuidance
- ▶ Virtual dashboard with parameter monitoring
- ▶ Alerts when a predefined value is breached such as a geo fence

Case IH Advanced Farming Systems® (AFS) have been at the forefront of precision farming for more than a decade, giving farmers the ability to control the entire crop production cycle. Case IH AFS tools include everything you need to achieve repeatable accuracy down to 2.5 cm, reduce overlaps and cut input costs – and maximise your yield potential.

## ADVANCED VEHICLE CONTROL

If it's interactive vehicle set-up and control you need, then look no further than the AFS Pro 700 touchscreen: monitor fuel usage and work rates, connect external cameras, keep job records and manage ISOBUS implements. The AFS Pro touchscreens are interactive, fully customisable and portable between your Case IH fleet.

## VEHICLE GUIDANCE SOLUTIONS

If it's a guidance system you are looking for, we have simple 'plug and play' lightbar steering kits through to fully automated and integrated solutions (AccuGuide). With the range topping RTK systems we can make you pass perfect down to 2.5 cm.

## AFS FARM MANAGEMENT SOFTWARE

Many variables apply in farming and it is key to understand what is happening and why. It's time to

manage your farming operation by making decisions based on facts. With the AFS Farm Management software package from Case IH, you can see, field by field, the tasks performed, the work rates achieved, the fuel used during each task and, most importantly, your yield. Plan for the future today.

## AFS CONNECT™ TELEMATICS

The Case IH AFS Connect telematics system allows farm owners and managers to monitor and manage their machinery from the farm office, tracking machines in real time on the farm computer to observe how they are performing through the use of precision guidance GPS signals and wireless data networks. Analysing the data it provides helps to improve logistics, minimise fuel consumption and maximise performance.

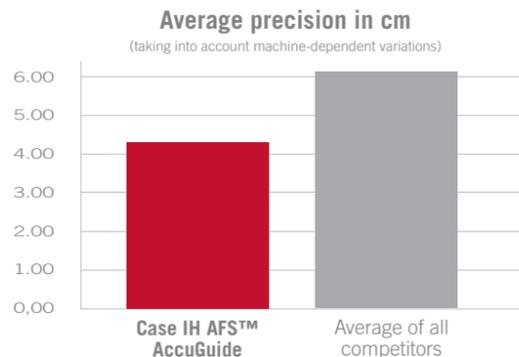


The precision and handling of automatic steering systems on farming vehicles were assessed in the DLG focus test "Automatic Steering Systems".

Summary:

**"...The approved steering system from Case IH offers a system precision range of 3-5 when used with a local RTK station..."**

For the full test, see [www.dlg-test.de/tests/6156F.pdf](http://www.dlg-test.de/tests/6156F.pdf) or simply use your smartphone to scan the QR code.



# PRECISE CONTROL

Interactive, integrated and intuitive

## ADVANTAGES

- ▶ Intuitive AFS® Pro 700 touchscreen
- ▶ Control tractor and implements with ISOBUS Class III connection
- ▶ Headland Management Control II each step is timed or distance recorded
- ▶ Improved productivity with up-to-the-minute information

Case IH Advanced Farming Systems are within easy reach on the AFS Pro 700 touchscreen monitor, integrated into the armrest of the Puma and Puma CVT models. In addition, to complete automation of all the tractor's key functions, including the sequencing of up to 32 headland functions, the AFS screen also keeps track of the work done, fuel consumption, operating costs and much more.

## KEY FEATURES INCLUDE:

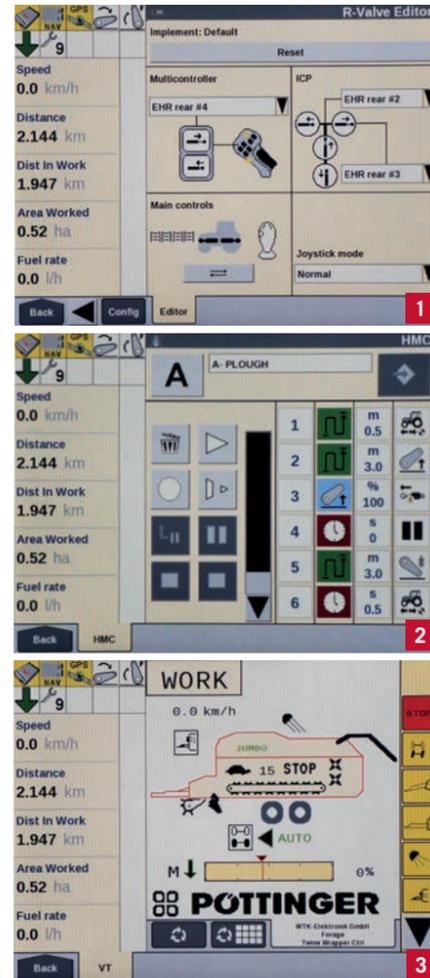
- **Performance monitoring:** record overall performance, for each day and for each job. All data from the AFS monitors can be saved to a USB stick for analysis back at the office if required.
- **Vehicle settings:** a series of AFS screens allow you to fine-tune the tractor's settings. It is easy to set the flow rates and timers for each of the remote valves, giving you an excellent overview of the whole setup.
- **Hitch notebook:** this screen allows you to save the settings for each implement according to the working conditions. For example next time you attach the plough, you just need to open the notebook and choose the right set-up.
- **HMC II Headland Management Control:** this system has been designed to make the operator's job easier when turning at the end of the row during in-field operations.

A headland sequence can either be recorded on the go or created in advance in the farmyard. When in record mode, each step will be timed or distance recorded and can be used to build an HMC sequence.

- **ISOBUS Class III compatibility:** hook up any compatible machine to display the user interface for the machine on the AFS monitor, enabling you to operate the machine easily and interactively by pressing the control buttons on the AFS monitor screen. Depending on the implement, ISOBUS Class III can automatically control some tractor functions like speed, hitch, PTO and EHR. You do not need a separate control monitor or cables inside the cab.
- **Video input:** you can display up to three video feeds from cameras positioned around a loader wagon or baler. This means you can monitor what is going on behind you without having to take your eyes off the work area in front of you.
- **Vehicle guidance:** a variety of vehicle guidance solutions are available to match your needs for precision. A fully automated and integrated solution, which is factory installed, gives you the pinpoint accuracy you need for high value crops. Alternatively, a simple plug and play lightbar steering kit can be installed.

## AFS PRO 700 TOUCHSCREEN MONITOR

Enhanced vehicle control and additional productivity with programmable functions and settings, as well as notebook and ISOBUS Class III compatibility.



## Photos:

1. Individually configure the lever to the remote valve
2. Headland management Control II
3. ISOBUS Class III compatibility



# KEEP FARMING

Servicing made simple

## MAKE A PRODUCTIVE START – AND STAY PRODUCTIVE THROUGHOUT THE DAY!

When you have a busy working day ahead, time-consuming maintenance tasks are the last thing you want to do. For this reason, we have designed the Puma and the Puma CVT to be maintenance-friendly across the board; the daily checks are quick to complete. Do your checks and you're ready to go!

## OPTIMUM OPERATING TIME, MINIMAL MAINTENANCE COSTS

With the Puma and Puma CVT models, maintenance times and costly downtime are minimised, allowing you to work productively. Productivity is also increased by the unrivalled 600-hour/12 month maintenance intervals; just one example of a number of characteristics of the Puma and Puma CVT that allow you to keep your operational readiness at a high level and your servicing and repair costs low.

## CLEANING COMPLETE IN NEXT TO NO TIME

The radiators can be swung out to enable easy cleaning.

## EASY ACCESS

The single-piece bonnet is raised using a gas strut and can be locked at an angle of 45° and 90°, even with front attachments fitted.

## FAST DAILY CHECKS

The engine oil can be checked and topped up even when the bonnet is closed.

MODELS	PUMA 140	PUMA 155	PUMA 180	PUMA 210	Puma 165 CVT	Puma 195 CVT	PUMA 225 CVT
<b>ENGINE</b>							
Number of cylinders / type	6 / turbocharged and intercooled						
Capacity (litres)	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Bore x stroke mm	104 X 132	104 X 132	104 X 132	104 X 132	104 X 132	104 X 132	104 X 132
Rated power ECE R120 <sup>1)</sup> (kW/hp(CV))	104 / 142	116 / 158	134 / 182	157 / 213	123 / 167	145 / 197	165 / 224
Rated power ECE R120 <sup>1)</sup> Power Management <sup>2)</sup> (kW/hp(CV))	123 / 167	135 / 183	160 / 218	175 / 238	150 / 204	172 / 234	181 / 247
Rated engine speed (rpm)	2200	2200	2200	2200	2200	2200	2200
Maximum power ECE R120 <sup>1)</sup> (kW/hp(CV))	112 / 150	124 / 166	147 / 200	164 / 223	132 / 180	156 / 212	169 / 230
Maximum power ECE R120 <sup>1)</sup> Power Management <sup>2)</sup> (kW/hp(CV))	131 / 178	142 / 193	172 / 234	178 / 242	158 / 215	177 / 241	185 / 251
... at engine speed (rpm)	1900 - 2000	1900 - 2000	1900 - 2000	1900 - 2000	1900 - 2000	1900 - 2000	1800
Maximum torque (Nm/rpm)	643 / 1400	690 / 1400	844 / 1400	866 / 1400	774 / 1400	860 / 1400	950 / 1400
Maximum torque - Power Management <sup>2)</sup> (Nm/rpm)	678 / 1600	748 / 1600	938 / 1600	984 / 1600	874 / 1600	965 / 1600	1025 / 1500
Torque rise Standard / Power Management <sup>2)</sup> (%)	42 / 27	37 / 28	45 / 35	27 / 30	45 / 35	37 / 30	32 / 30
Fuel tank (litres)	285	285	412	412	412	412	412
<b>TRANSMISSION</b>							
18x6 Semi- / Full Powershift 40 kph	○/●	○/●	-/●	-/●	-/-	-/-	-/-
19x6 Semi- / Full Powershift Economy 40 kph @ reduced rpm	○/○	○/○	-/○	-/○	-/-	-/-	-/-
19x6 Semi- / Full Powershift 50 kph	○/○	○/○	-/○	-/○	-/-	-/-	-/-
CVT 40 kph Economy @ reduced rpm	-	-	-	-	●	●	●
CVT 50 kph Economy @ reduced rpm	-	-	-	-	○	○	○
Creeper	○	○	○	○	●	●	●
Rear axle diff-lock type	Multi disc wet plate with management system						
Service brake	Hydraulically operated multiple wet disc brake, self adjusting						
<b>FOUR-WHEEL DRIVE AND STEERING</b>							
Type	Electro-hydraulic with management system						
Front axle suspension	○	○	○	○	○	○	○
Steering angle (°)	55	55	55	55	55	55	55
Min. turning radius <sup>3)</sup> track setting 1829 mm (m)	5.45	5.45	6.1	6.1	6.1	6.1	6.1
<b>POWER TAKE OFF</b>							
Type	Electro-hydraulic with Auto PTO control available						
Speeds Standard / Option	540/540E/1000 / -		540E/1000 / 540/1000		1000/1000E / 540/540E/1000/1000E		
Engine speeds Standard / Option (rpm)	1969/1546/2120 / -		1569/1893 / 1893/1950		1893/1614 / 1931/1598/1912/1583		
Shaft type	1 3/8" 21 splines / 1 3/8" 6 splines		1 3/8" 21 splines 1 3/8" 6 splines / 1 3/4" 20 splines				
	○	○	○	○	○	○	○
<b>HYDRAULIC SYSTEM</b>							
Pump flow and system type main hydraulic Stand/Optional (l/min)	113 PFC	113 PFC	120 - 150 PFC	120 - 150 PFC	120 - 150 PFC	120 - 150 PFC	120 - 150 PFC
System pressure (bar)	210	210	215	215	215	215	215
Control type	EHC with ride control						
Max. lift capacity (kg) Standard/Optional	6689 / 8259	6689 / 8259	6,995 / 10,460	6,995 / 10,460	6,995 / 10,460	6,995 / 10,460	6,995 / 10,460
Max. number of remote valves Standard / Optional	3 or 4 mechanical or 3 electronic	3 or 4 mechanical or 3 or 4 electronic	3 to 4 mechanical or 3 to 5 electronic		3 to 5 electronic	3 to 5 electronic	3 to 5 electronic
Max. number of mid mount valves with electronic joystick	2 electric	2 electric	3 electric	3 electric	3 electric	3 electric	3 electric
Category type	Cat II / III	Cat II / III	Cat II / III	Cat II / III	Cat II / III	Cat II / III	Cat II / III

MODELS	PUMA 140	PUMA 155	PUMA 180	PUMA 210	PUMA 165 CVT	PUMA 195 CVT	PUMA 225 CVT
<b>WEIGHT</b>							
Minimum weight (kg)	5450	5650	7300	7300	7200	7200	7200
Permissible total weight (kg)	10500	10500	13000	13000	13000	13000	13000
Max. permissible weight front (kg)	4900	4900	6000	6000	6000	6000	6000
Max. permissible weight rear (kg)	7300	7300	9500	9500	9500	9500	9500
<b>DIMENSIONS<sup>4)</sup></b>							
A: Total length (mm)	4672	4672	5017	5017	5017	5017	5017
B: Total height (mm)	2995	2995	3164	3164	3164	3164	3164
C: Total width (across rear fenders with 150 mm extension) (mm)	2682	2682	2682	2682	2682	2682	2682
D: Wheel base (mm) Standard/with front axle suspension	2734 / 2789	2734 / 2789	2884	2884	2884	2884	2884
E: Height at centre of rear axle / highest point (mm)	2239	2239	2240	2240	2240	2240	2240
F: Track setting front (mm)	1560 - 2256	1560 - 2256	1560 - 2258	1560 - 2258	1560 - 2258	1560 - 2258	1560 - 2258
rear (mm)	1470 - 2294	1470 - 2294	1528 - 2695	1528 - 2695	1528 - 2695	1528 - 2695	1528 - 2695
<b>STANDARD TYRES<sup>4)</sup></b>							
Front	480/70R28	480/70R28	480/70R28	540/65R28	600/65R28	600/65R28	600/65R28
Rear	580/70R38	580/70R38	580/70R38	650/65R38	650/65R42	650/65R42	650/65R42

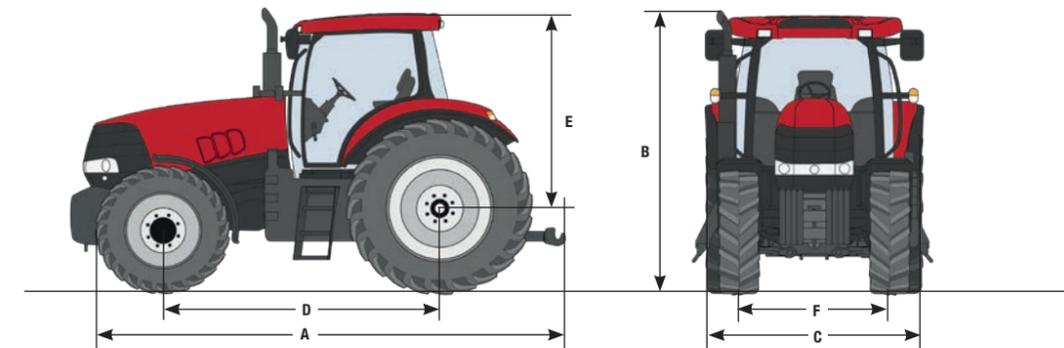
● Standard Equipment ○ Optional Equipment - Not available

<sup>1)</sup> ECE R120 correspond to ISO 14396 and 97 / 68 / EC

<sup>2)</sup> Power Management is only available during mobile PTO and haulage applications

<sup>3)</sup> With standard tyres

<sup>4)</sup> Other tyres on request





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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 **ARCELA** lubricants. 22APACCOM001

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