

CASE IH
AGRICULTURE
FOR THOSE WHO DEMAND MORE

PUMA
TRACTORS 140 - 180hp



TOP FEATURES OF EACH PUMA MODEL

PUMA

> THE ECONOMICAL ALTERNATIVE

- ActiveDrive 6 - Semi-Powershift transmission
- Option of high or low roof
- Up to 4 mechanical rear remote valves and up to 3 electronic mid-mounted remote valves
- 540 / 540E / 1,000 rear PTO speeds
- 110l/min CCLS hydraulic pump

PUMA MULTICONTROLLER

> THE MODERN ALL-ROUNDER

- Up to 4 mechanical or up to 5 electronic rear remote valves
- Multicontroller armrest
- ActiveDrive 6 - Semi-Powershift or PowerDrive - Full-Powershift transmission
- Headland Management Control II and ISOBUS III
- 540 / 540 E / 1,000 rear PTO speeds
- Up to 150l/min CCLS hydraulic pump

PUMA CVXDRIVE

> THE SEAMLESS SOLUTION

- CVXDrive continuously-variable transmission
- APM engine/transmission management
- ECO Drive split throttle
- Active hold function
- 50kph at fuel-frugal rpm
- Up to 160l/min CCLS hydraulic pump



THE PUMA SERIES

Efficient power for profitable farming

ENGINE

- 6 cylinder FPT engine with 6.7l capacity
- Economical and environmentally friendly: fulfills EU Stage V emission level
- Patented HI-eSCR2 aftertreatment system with diesel oxidation catalyst (DOC) and SCR catalyst (SCRoF)
- Engine power management provides up to 44hp extra boost

DESIGN

- Attractive, functional bonnet design with large radiator grill for ideal airflow
- Powerful, long-lasting LED headlights integrated into the radiator grill
- Unobstructed view of the front hitch
- High-visibility roof window for a better overhead view

FRONT MOUNTING AREA

- Integrated front linkage with front hitch management and front PTO
- High-performance hydraulic pumps for fast response
- Optional adaptive steering control with adjustable steering wheel ratio
- Electrical joystick for operating the front loader



DRIVING COMFORT AND SAFETY

- Suspended and braked front axle available as an option
- Premium driver's seat with active suspension (Puma CVXDrive and Puma Multicontroller)
- Patented trailer brake system – Advanced Trailer Brake for Puma CVXDrive

TRANSMISSION

- ActiveDrive 6 semi-powershift transmission
- PowerDrive full-powershift transmission
- CVXDrive continuously-variable transmission from 0 to 50kph and Active Hold feature
- All transmissions available with 40kph ECO
- Automatic Productivity Management (APM) – perfect interaction of engine and transmission

HYDRAULICS

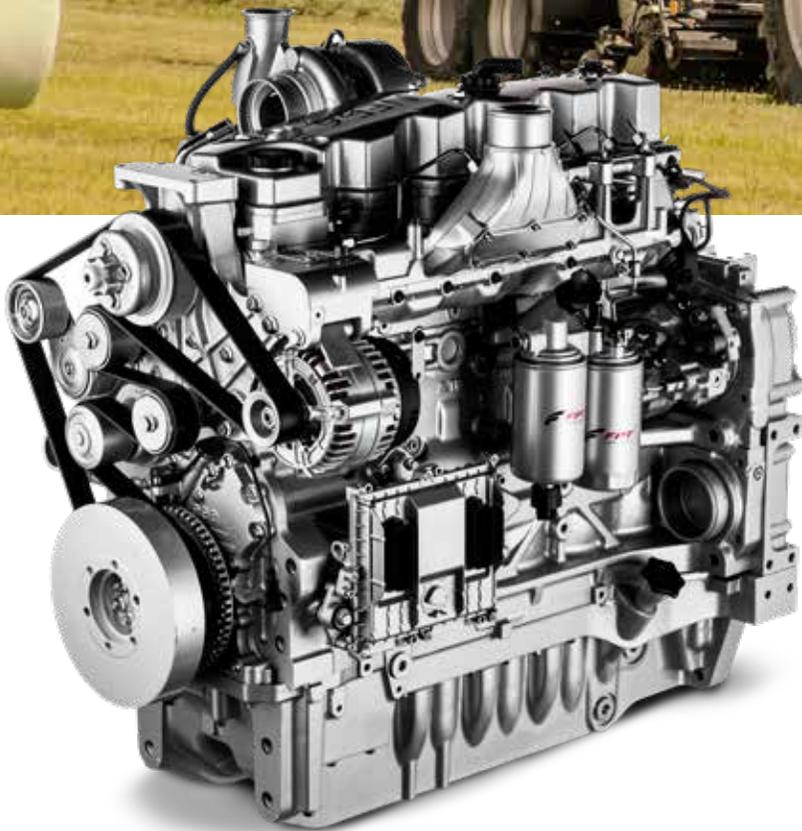
- CCLS pump with flowrates of 110l/min to 160l/min
- Up to 8,257kg lifting capacity
- Up to 5 electro-hydraulic rear remote valves (Puma CVXDrive and Puma Multicontroller) and up to 3 mid-mounted electro-hydraulic remote valves (for entire Puma range)
- Power-beyond connection on request

The Case IH Puma series has been modernised with a new design and additional functionality. Working even more efficiently and economically, your operating costs stay as low as possible. All Puma models have one thing in common: they have a global reputation as reliable, powerful, economical tractors.

The Puma is manufactured in St. Valentin, Austria, where first class expertise and our proven production quality are combined for the best possible product. With a choice of customer-oriented operating and trim options, there is a Puma for any requirement.

POWER AND PERFORMANCE

High-performance engine from FPT



THESE ENGINES WILL WIN YOU OVER WITH PERFORMANCE, TORQUE, FUEL-EFFICIENCY AND RELIABILITY WHILE COVERING A RANGE OF 140-180HP (RATED POWER).

All Pumas feature an engine power management boost for PTO, hydraulic and transport work, taking those horsepower figures to 175-224hp (maximum). The engine power management on Puma CVXDrive models is now also available when operating in reverse, benefiting users who regularly use their tractors for reverse-drive applications such as mowing and snow blowing.

The Puma truly is a universal tractor. Thanks to its low weight and long 750 hour service interval, the Puma is a true all-rounder.

You'll spend more time where it counts and where you can make a return on your investment – in the field.

CHOOSE EFFICIENCY

Tackle any task



ADVANTAGES

- 18x6 and 19x6 ActiveDrive 6 — Semi-Powershift transmission with 40kph and 40kph ECO or 50kph (Puma 140 – Puma 165)
- 18x6 and 19x6 PowerDrive – Full-Powershift transmission with 40kph and 40kph ECO or 50kph (Puma 150 – Puma 165 Multicontroller)
- Fully automatic range change
- Creeper speeds available as low as 200m/h
- CVXDrive – continuously variable transmission with 0-50kph ECO capability and Active Hold function
- DKT™ double clutch technology on CVXDrive

ACTIVE-DRIVE 6 SEMI-POWERSHIFT, POWERDRIVE FULL-POWERSHIFT OR CVXDRIVE TRANSMISSION: THE CHOICE IS YOURS

At Case IH, we know that no two farm businesses are the same, and every business demands different things of its tractors. That's especially true in the transmission department, where what suits one operation may not be right for another. Puma, one of the most versatile tractor ranges in the Case IH line, is available with three transmission options.

OPTIMUM PERFORMANCE

The continuously variable CVXDrive transmission uses APM engine/transmission management to ensure efficiency.

The Puma CVXDrive is quiet and fuel efficient during transport jobs, using engine speeds of just 1,500 to 1,600rpm. Active hold control, equipped as standard, automatically prevents the tractor from rolling on slopes, regardless of brake and clutch positions.



STAY FOCUSED, BE PRODUCTIVE

KEEP WORKING LONGER



CLIMB UP INTO A PUMA AND TAKE A SEAT. YOU'LL NOTICE THE DIFFERENCE IN COMFORT IMMEDIATELY.

A range of seat options for Puma tractors gives operators the best ride quality in the industry. All Puma models offer extremely comfortable, quiet and ergonomically-designed cabs with excellent allround visibility. This operating concept is tailored to the needs and wishes of our clients to minimise familiarisation time and maximum work results.

Operate whenever you need to with up to 16 LED lights that provide superior visibility at night.

ADVANTAGES

- Choice of trim packages
- Intuitive controls
- Excellent view to front, sides and rear
- Cab suspension standard on all models and front axle suspension available for a perfect ride
- Low noise level of 69dB(A) inside the cab reduces fatigue

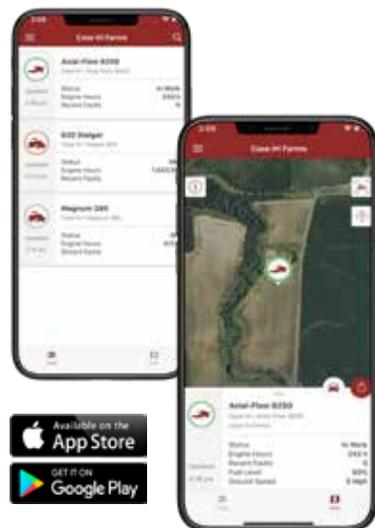
MAXIMISE YOUR PRODUCTIVITY

With automated efficiency



TRACK YOUR OPERATION
SAVE MONEY WITH ADVANCED FARMING SYSTEMS

With the Case IH AFS systems, you can maximise your efficiency, operate ISOBUS Class III compatible devices from the cab and choose from a full range of guidance solutions with accuracy levels of up to 1.5cm. The optional AFS Pro 700™ monitor gives you more control at all times. Headland Management Control II automates workflows for less driver fatigue and higher productivity. Now, with new AFS AccuTurn™ Pro technology, all headland processes including automatic turning can be included in HMC II.



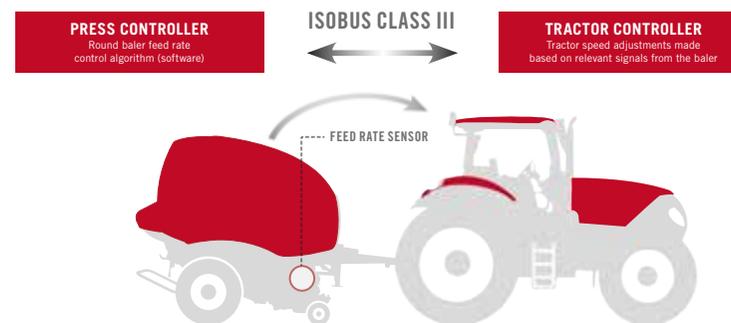
**MANAGE YOUR FARM,
FLEET AND DATA**



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.

INTEGRATED SOLUTIONS

With ISOBUS III, it is possible for the implement to control the Puma CVXDrive. It will automatically adjust forward speed, steering, hitch position and PTO speed, as well as operating remote valves according to the implements needs. The result is optimum productivity and operator relief.



ADVANTAGES

- Range of signal accuracies available (WAAS, EGNOS, OmniSTAR, RTX and RTK signals)
- Receivers use GPS, Galileo and GLONASS signals for higher network coverage
- Optional high accuracy RTK+ signal with accuracy levels close to 1.5cm
- Integrated Accuguide auto-guidance
- AFS Connect lets you remotely monitor and manage your farm, fleet and data
- Easy data sharing for mixed fleet owners thanks to DataConnect and DKE Agrirouter partnerships*

* Requires AFS Connect Telematic subscription - Available mid 2020

MODELS	PUMA 150 CVXDRIVE	PUMA 165 CVXDRIVE	PUMA 175 CVXDRIVE	PUMA 150 MULTICONTROLLER	PUMA 165 MULTICONTROLLER	PUMA 140	PUMA 150	PUMA 165
ENGINE								
Number of cylinders / Capacity (cm ³)	FPT 6 / 6,700							
Type / Emission level	Common Rail Diesel engine, turbocharger and Hi-eSCR2 only exhaust after treatment / Stage V							
Maximum power ECE R120 ¹⁾ Power Management ²⁾ (kW/hp(CV))	140 / 190	154 / 209	165 / 224	140 / 190	154 / 209	129 / 175	140 / 190	154 / 209
Maximum power ECE R120 ¹⁾ (kW/hp(CV))	121 / 165	132 / 180	147 / 200	121 / 165	132 / 180	114 / 155	121 / 165	132 / 180
... at engine speed (rpm)	1,800							
Rated power ECE R120 ¹⁾ Power Management ²⁾ (kW/hp(CV))	129 / 175	140 / 190	151 / 205	129 / 175	140 / 190	118 / 160	129 / 175	140 / 190
Rated power ECE R120 ¹⁾ (kW/hp(CV))	110 / 150	121 / 165	132 / 180	110 / 150	121 / 165	103 / 140	110 / 150	121 / 165
... at engine speed (rpm)	2,200							
Maximum torque Power Management ²⁾ (Nm @ 1,500rpm)	805	875	940	805	875	750	805	875
Maximum torque (Nm @ 1,500rpm)	700	770	840	700	770	655	700	770
Torque rise standard / Power Management ²⁾ (%)	46 / 44	46 / 44	46 / 44	46 / 44	46 / 44	47 / 47	46 / 44	46 / 44
Fuel tank, diesel / urea (litres)	330 / 48							
TRANSMISSION								
CVXDrive - Continuously variable transmission 50kph or 40kph ECO	●			-			-	
18x6 ActiveDrive 6 - Semi- / 18x6 PowerDrive - Full-Powershift 40kph	-			○ / ●			● / -	
19x6 ActiveDrive 6 - Semi- / 19x6 PowerDrive - Full-Powershift 40kph ECO	-			○ / ○			○ / -	
19x6 ActiveDrive 6 - Semi- / 19x6 PowerDrive - Full Powershift 50kph	-			○ / ○			○ / -	
Powershuttle	●			-			-	
Creeper	●			-			○	
Rear axle diff-lock type	Multi disc wet plate with management system							
Service brake	Hydraulically operated multiple wet disc brake, self adjusting							
POWER TAKE OFF								
Type	Shifttable with progressive electro-hydraulic engagement. Auto-PTO optional							
Speeds Standard (Option)	540 / 540E / 1,000 (540E / 1,000 / 1,000E) both with optional ground drive							
... at engine speeds Standard (Option) (rpm)	1,969 / 1,546 / 1,893 (1,592 / 1,893 / 1,621)							
Shaft type Standard (Option)	1 3/8" 21 splines (1 3/8" 6 splines or 1 3/4" 20 splines)							
FRONT PTO AND FRONT HITCH								
Front PTO 1,000 speed @ engine rpm	1,895							
Front hitch OECD lift capacity through range @ 610mm (kg)	3,571							
FOUR-WHEEL DRIVE AND STEERING (DRIVELINE)								
Type	Electro-hydraulic with management system, differential lock as standard							
Front axle suspension	●			○			○	
Min. turning radius ³⁾ track setting 1,829mm (m)	5.45							
HYDRAULIC SYSTEM								
System type	Variable displacement, pressure flow compensated pump							
Max. pump flow rate Standard (Option) (l/min) / System pressure (bar)	140 (160) / 210			110 (150) / 210			110 (-) / 210	
Control type	Electronic Hitch Control (EHC) with cushion ride control							
Max. lift capacity (kg)	8,257							
OECD lift capacity through range @ 610mm (kg)	6,616							
Max. number of rear remote valves	4 mechanical or 5 electronic			-			4 mechanical	
Max. number of mid mount valves with electronic joystick	-			3 electronic			-	
Remote valve timer control	1 - 60 seconds on all models			-			-	
Category type	Cat II / III							
Slip control	○							
STANDARD TYRES ⁴⁾								
Front	480/70 R28							
Rear	580/70 R38							
WEIGHT / DIMENSIONS ³⁾								
Approximate shipping weight standard / suspended front axle (kg)	-			6,480 / 6,782			-	
Permissible total weight (kg)	11,500			10,500			10,500	
A: Max. length with front and rear lower links down standard / suspended front axle (mm)	-			5,240 / 5,316			-	
B: Total height low roof / standard cab (mm)	- / 3,026			- / 3,026			2,914 / 3,026	
C: Minimum width across rear fenders (narrow / wide type fender) (mm)	-			2,060 / 2,476			-	
D: Wheel base standard / suspended front axle (mm)	-			2,734 / 2,789			-	
E: Height at centre of rear axle, highest point low roof / standard cab (mm)	- / 2,210			- / 2,210			2,098 / 2,210	
F: Track setting front / rear (mm)	-			1,325-2,285 / 1,430-2,230			-	

¹⁾ ECE R120 correspond to ISO 14396 and 97 / 68 / EC ²⁾ Power Management is only available during hydraulic, mobile PTO and haulage applications ³⁾ With standard tyres ⁴⁾ 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 **ACELA** lubricants.

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