

CASE IH
AGRICULTURE
FOR THOSE WHO DEMAND MORE

PUMA

140 - 225 HP **TRACTORS**





EVERY SINGLE DAY, YOU DEMAND MORE.



More from the land. More from yourself. More from your equipment. Which is why we provide more. More powerful engines. More productivity-boosting features. More approachable and knowledgeable dealers.

We provide more to better serve you and the needs of your operation. Let's face it. Goals change. Needs change. The world changes. But the number of hours in the

day never does. That's why we've developed an efficient, multi-purpose tractor line with just the right amount of power for both row-crop and livestock applications – the Puma™ Series Tractors.

**IT'S RELIABLE. IT'S DURABLE. IT'S FUEL EFFICIENT.
IT'S PUMA.**

PANORAMIC VIEW

The ergonomic cab delivers an unobstructed 360-degree view. The A-post instruments and optional performance monitor keep important functions and vehicle performance data centrally located.

TAKE A WALK AROUND

Features that bring benefits.

The Puma™ tractor series is all about efficiency. With five models, ranging from 142 to 224 rated horsepower (CV), Puma tractors provide the right amount of power for primary tillage, cultivation, planting and transport. Whether it's spring or autumn work or pulling trailers, the Puma tractors' outstanding power-to-weight ratio will deliver the precise power you need for top efficiency and fuel savings.

POWER MANAGEMENT

Power Management provides up to 37 additional horsepower and field PTO application for road transporting and PTO applications.

MODELS	Rated power ECE R120 ¹⁾ @ 2,200 rpm (kW/hp(CV))	Maximum power ECE R120 ¹⁾ with Power Management ²⁾ @ 1,900-2,200 rpm (kW/hp(CV))
Puma 140	104 / 142	131 / 178
Puma 155	116 / 158	142 / 193
Puma 180 (CVT optional)	134 / 182	172 / 234
Puma 210	157 / 213	178 / 242
Puma 225 CVT	165 / 224	185 / 251

¹⁾ ECE R120 correspond to ISO 14396 and 97 / 68 / EC ²⁾ Power Management is only available during mobile PTO and haulage applications





ADJUSTABLE MULTICONTROLLER ARMREST

The Multicontroller armrest is ergonomically perfect and includes a fully integrated joystick for control of tractor hydraulics.

HAVE YOUR CHOICE OF TRANSMISSION

Full Powershift Transmission (FPS) offers high switching quality for optimum performance. Gears can be changed without activating the clutch pedal. 19th Economy 40 kph @ 1,650 rpm gear enhances fuel efficiency, productivity and minimises noise at top road speeds.

INCREASED EFFICIENCY – HIGHER RETURNS

Continuously Variable Transmission (CVT) provides ease of operation and high mechanical input for unrivaled fuel efficiency.

PUMA SERIES TRACTORS SIMPLIFY MAINTENANCE

The Puma tractors are designed to provide unobstructed accessibility. Whether you're monitoring key tractor performance data from inside the cab or checking filters and fluids from ground level, Puma design makes it easy to maintain your equipment and protect your investment.



BEST PRACTISE

Tractor operation has never been easier.

Spacious Surround Vision cab features curved glass, low noise level and an unobstructed view of your surroundings. Optional remote-adjustable and heated electric mirror option lets you change side views at the touch of a button. Automatic climate control option lets you select the perfect temperature for continuous comfort. An A-Post instrument cluster with an optional performance monitor tracks important functions and data for convenient at-a-glance monitoring.



- | | |
|---|--|
| 1 Constant engine speed or Headland Management Control | 17 Slip Control |
| 2 EHC linkage raise/lower | 18 Headland Management Control |
| 3 Remote valve control | 19 Hitch Ride Control |
| 4 Power Shuttle | 20 AccuGuide (if equipped) |
| 5 Gear ratio Up Shift or Down Shift | 21 EHC Position Control |
| 6 AFS Pro 700™ touch screen monitor | 22 EHC Draft control |
| 7 Remote valve controls | 23 EHC linkage raise/lower |
| 8 Hydraulic motor mode and timer buttons | 24 Front PTO on/off |
| 9 Joystick for remote valves | 25 PTO on/off |
| 10 ICP™ Intuitive Control Panel | 26a electr. PTO speed selector |
| 11 Constant engine speed | 26b mechan. PTO speed selector |
| 12 ECO Fan | 27 Slip Control |
| 13 Auto Field and Auto Road | 28 Encoder to adjust timer and flow control |
| 14 Manual and Auto 4WD/Diff-Lock | 29 Front linkage upper limit control |
| 15 Front axle suspension lock | 30 Linkage upper limit control |
| 16 Auto PTO | 31 Linkage drop rate control |
| | 32 Draft sensitivity control |

ERGONOMICALLY POSITIONED CONTROLS

Multicontroller™ armrest, with the ICP intuitive control panel plus AFS Pro 700 touch screen monitor, integrate all the tractor's functions into the armrest. Here you have everything you need in one place: speed selection, direction changes, throttle, Headland Management Control with up to 30 programmable headland operations, electronic remote valves and front & rear hitch controls and much more. With a clear view of the instrument displays on the right-hand A post,

the Puma provides an operatorfriendly environment that gets even a novice driver working effectively on day one.

ADJUSTABLE ARMREST CONTROLS

Adjustable controls including transmission, throttle and hitch controls, are attached to the seat armrest for easy access in any seat position. An optional electrohydraulic joystick, with two or three function, adjoins the armrest controller for added loader convenience.



FUEL SAVINGS, DURABLE PERFORMANCE

Designed to be efficient in the toughest conditions.



The common rail Tier III engine features outstanding fuel economy and long-lasting durability. Rated from 142 to 224 horsepower, all five Puma tractors are built with high performance Case IH engines to deliver a reliable source of power. High pressure common rail diesel technology combined with electronic fuel management ensures cost-effective operation for all farming applications.

To ensure both power and efficiency, Puma tractors are equipped with a four-valve 6.7 litre turbocharged, intercooled, low-emission diesel engine. They supply their maximum torque at engine speeds as low as 1400 rpm in draft applications and 1600 rpm in PTO and transport applications when Power Management is active. The engine is designed to generate maximum power at 1800 - 2000 rpm. We also provide you with a constant power range of up to 600 rpm so work rates can be maintained with lower engine speed, less noise and more efficiency.

ENGINE POWER MANAGEMENT

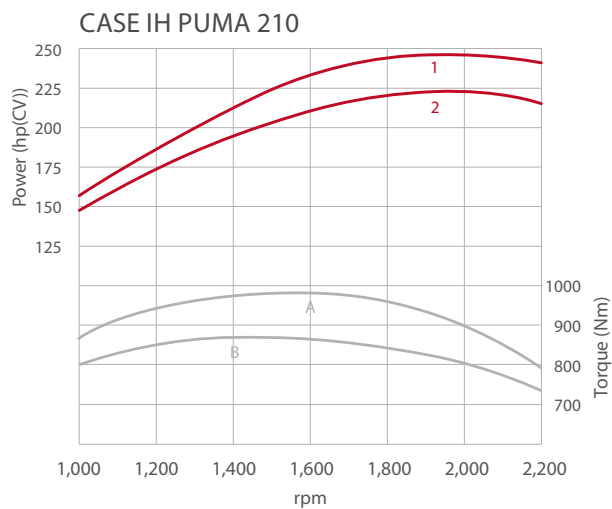
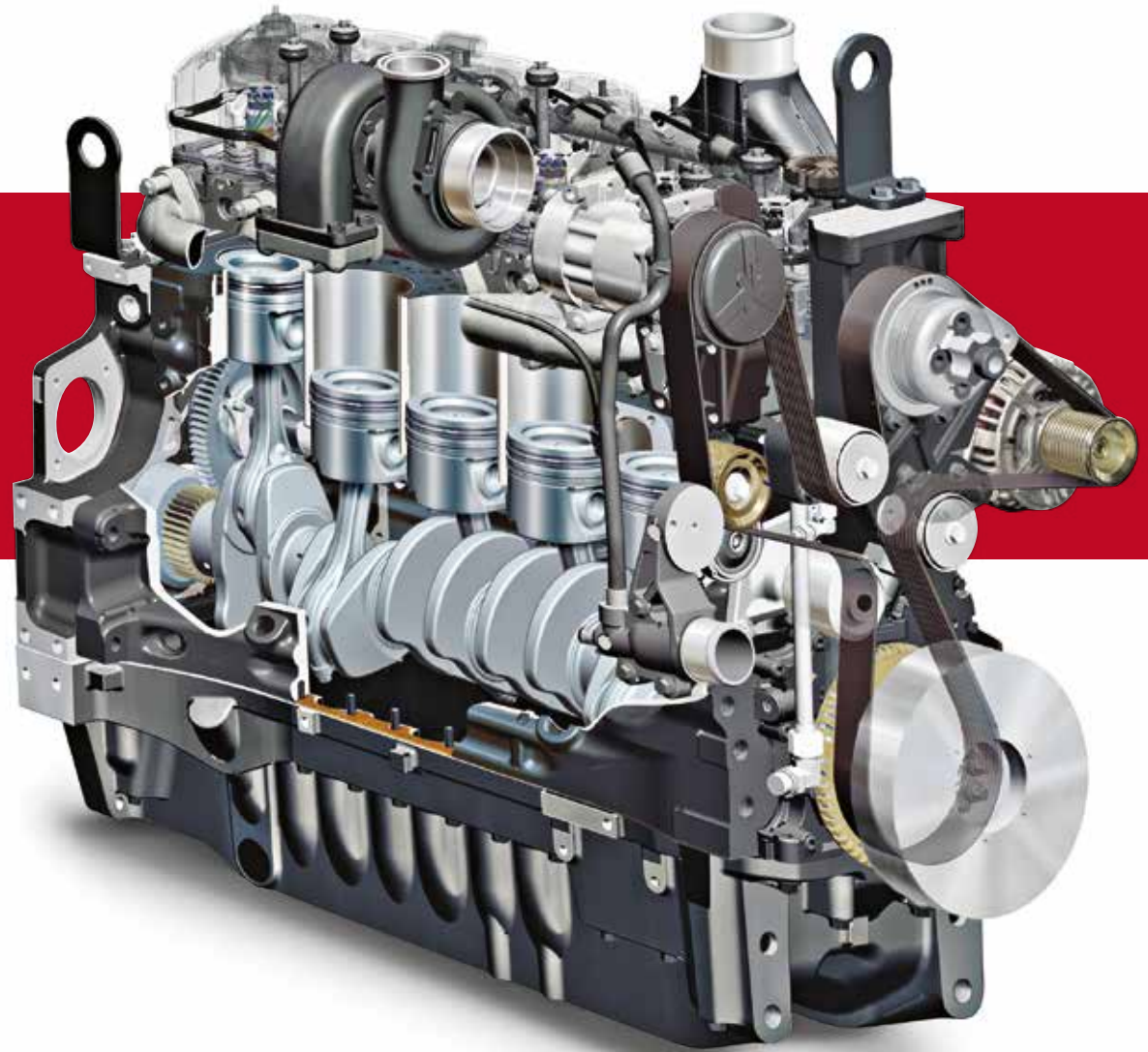
Engine Power Management delivers up to an additional 37 hp. This is up to 22% additional performance and is available in road transport, hydraulic and pto applications. Power Growth of up to an additional 18 hp (CV) means you have an additional 10% performance available simply by throttling back to 1900/2000 rpm.

OPTIMUM FUEL CONSUMPTION

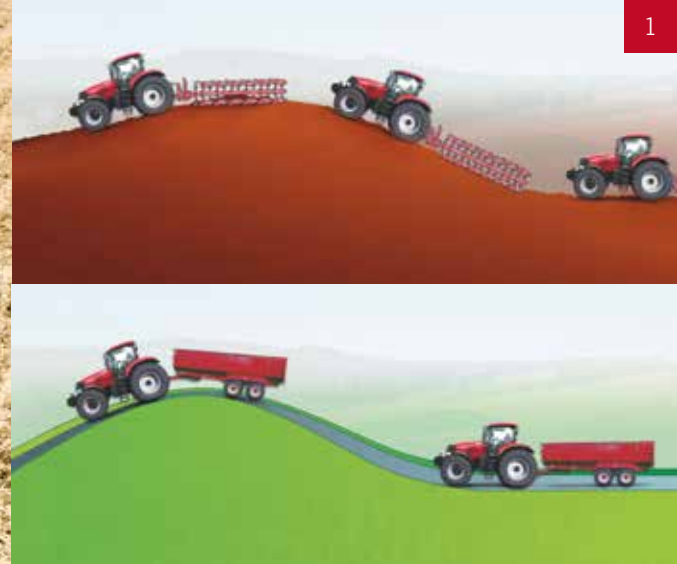
Common Rail fuel system delivers precise quantities of fuel to meet your demands of fuel economy and performance. Constant Engine Speed allows the engine speed to be programmed to 2 different values for specific applications, be it pto, draft or hydraulic operations the speed will be constant regardless of load.

RELIABLE PERFORMANCES

Service Intervals of 600 hours are the longest in the industry saving you time and money. The SEPAR fuel filter is factory installed to provide additional protection against low quality fuel and to ensure prolonged engine service lifespan.



Curves 1 and A with Power Management
Curves 2 and B without Power Management



TRACKLE ANY TASK

Simplicity. Power. Full control.

Your Puma comes with a choice of transmissions engineered to put you in full control of the tractor's powerful engine. At the top of the range, the Puma models from 140 to 210 feature a 40 kph, 18x6 Full Powershift transmission, or an optional 19x6 transmission that delivers 40 kph at the reduced engine speed of 1700 rpm or 50 kph. Puma models 140 and 155 are also available with a Semi Powershift transmission.

SIMPLICITY IS KEY

The six-speed Semi-Powershift transmission is both simple and reliable. It offers clutch-free gear changing within each

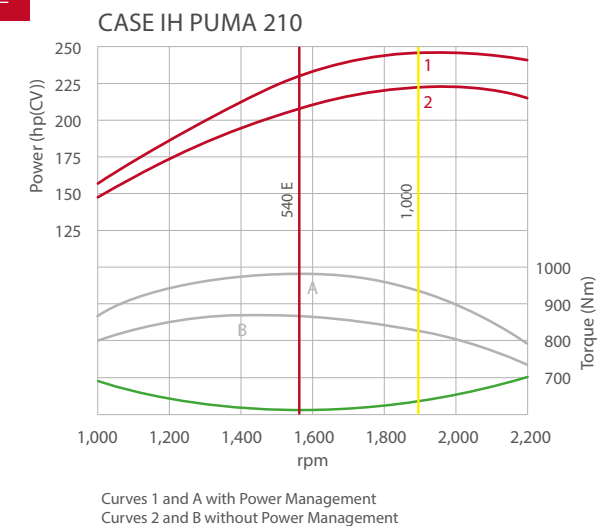
group and is the ideal choice for farmers looking for a cost-effective, tried-and-tested transmission.

HIGH SWITCHING QUALITY FOR OPTIMUM PERFORMANCE

With the Full Powershift transmission, you change gear under full load, even in heavy draft operations, without actuating the clutch. A creeper transmission with 29x6 gears and a minimum speed of 200 m/h is available on request. Features such as the clutch-less change of gears with up/down shift buttons on the Multicontroller and programmable forward/reverse gear ratios result in simple and comfortable operation, maximising your productivity while reducing your fatigue.



1 AutoField and AutoRoad modes optimize the transmission and provide automatic shifting based on load for increased productivity and fuel savings. Gear shifts are smooth because they are based on load. Small loads and shifts will be slow, large and they will be fast.



- 2** PTO is operated at 1893 engine rpm or at 1569 engine rpm in Economy mode for power and efficiency.

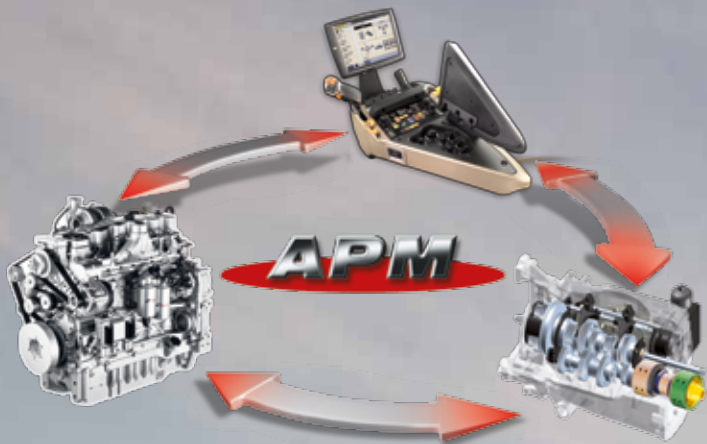
A CHOICE OF PTO OPTIONS FOR VERSATILITY

Puma 140 and 155 are fitted as standard with 540/750/1000 rpm PTO speeds. The Puma 180 and 210 are fitted as standard with 540E/1000 rpm PTO speeds. The Puma 180 CVT and 225 CVT are fitted with a 1000/1000E rpm PTO speeds. For special applications it can be upgraded to a 4 speed PTO (540/540E/1000/1000E rpm). Drive is direct from the engine flywheel for maximum efficiency. Should you require, a 1000 rpm front PTO is available for extra versatility. PTO is operated at 1893 engine rpm or at 1569 engine rpm in Economy mode for power and efficiency.

INTUITIVE PTO MANAGEMENT

The Puma PTO management system automatically disengages power to the implements as soon as they are raised, re-engaging when the hitch is lowered again. Designed to protect implement driveshafts and reduce operator fatigue, it can also be programmed into the headland management. Soft Start PTO gradually increases torque to ensure a smooth startup and to protect implement drive shafts. Easy PTO speed selection from inside the cab using the optional Electrical Speed Selector ESS.







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- 1 Active Stop holds the tractor stationary without applying brakes.
- 2 Doppel Kupplung Technologie DKT™ (Double clutch technology)

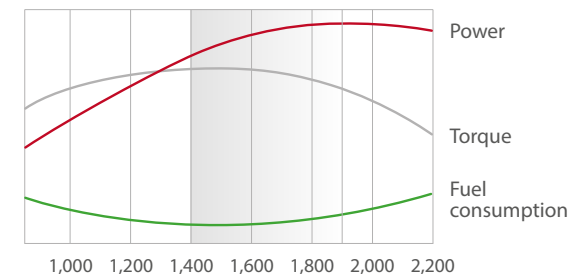
STEPLESS AND SEAMLESS

The Puma CVT transmission.

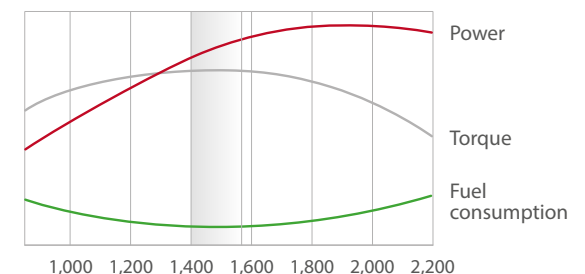
Case IH launched its first CVT tractor in 1999 featuring the industry leading Auto Productivity Management (APM). This feature managing automatically the engine and the transmission revolutionized the way to drive a tractor. The development of the Puma CVT has taken place over the last 10 years with the input of our dealers and over 500 key technological leading farmers & contractors worldwide, helping us to define the key features of the Puma CVT. The result is a CVT tractor of second generation benefiting from proven components and upgraded with the latest technology to achieve best in class productivity, efficiency and driving comfort. Today, CVT transmission technology is available on the Puma 180 and 225 models.

The Puma CVT makes operation exceptionally easy: the operator just needs to set the speed with the travel pedal or the Multicontroller lever and the APM will look after everything else. In addition, it features the simplest drive lever in the industry, which puts all the controls at the operator's fingertips, intuitively positioned on the armrest for greater comfort and productivity. All the hitches, PTO and remote valves are controlled from the armrest. Simple.

Doppel Kupplung Technologie DKT™ (Double clutch technology) enables smooth gear changes with no interruption in the flow of power. This Double clutch allows to use only 2 clutch packs in combination with 4 ranges, delivering the optimum ratio between the hydraulic and mechanical drives in all applications, maximising transmission efficiencies. This results also in better acceleration and better fuel efficiency.



ECO Drive™, the intuitive way to save even more fuel. To give absolute priority to fuel efficiency you can customize the working range of the APM system.





PUTTING THE POWER WHERE IT MATTERS

Maximum power to the ground.

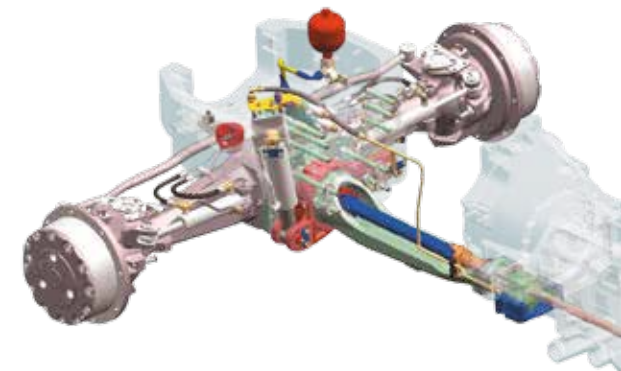
- 1 Min. turning radius:
5.45 m - Puma 140, 155
6.10 m - Puma 180, 210, 225.

Puma tractors give you power and the capability to control it with ease. In addition to the traction management system, your Puma tractor can be equipped with a range of front axle features to improve steering, braking and safety both on the road and around the yard. Four wheel drive and differential lock management is provided on all Puma models. With controls to switch between manual and automatic mode, the operator is able to harness true traction with both mounted and trailed equipment.

Auto 4WD and Diff lock disengage and engage automatically e.g. on tight corners, when braking and depending on hitch position and forward speed. Pneumatic or hydraulic trailer brakes are available for working with large trailers.

Front suspension is available as option on all models, improving ride comfort at the same time as providing more control. Less pitching is experienced when travelling at speed with mounted implements, or manoeuvring with a loader. It has 105 mm of travel and damping is then controlled via an advanced accumulator and regenerative valve system for a smoother ride. It also has automatic self-levelling according to load.

Due to the compact engine dimension, Puma tractors have an extremely tight turning radius. Dynamic Fenders give these tractors an additional 30% in steering angle for superb handling characteristics.



The hydraulic system on a Puma gives you outstanding power with precise control. The powerful hitch is designed to make things as straightforward as possible for the operator. The closed centre load sensing system delivers the power and flow needed for tomorrow's implements today. All Puma tractors feature advanced electronic draft control. This system is easy to operate and very effective.

PUMA FOR PRECISION POWER

Front and rear hydraulics versatility.

Up to 10,460 kg can be lifted by the rear hitch, over which you have fingertip control – even outside the cab, thanks to the fender-mounted control buttons, for single-handed implement attachment. The hydraulic system is powered by a variable displacement piston pump delivering up to 120 litres per minute. Up to 4 mechanical standard or 5 electronic remote valves are available and you can choose up to 3 electronic mid mount valves too.

Hitch Ride Control is a shock damping system to reduce bounce and improve stability of heavy implements during transport.





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PRECISION EQUALS PROFIT

Case IH Advanced Farming Systems (AFS):
get more from every input.

- 1 **xFill bridges RTK+ signal gaps of up to 20 minutes**
- 2 **AFS AccuGuide: GPS and GLONASS based guidance**
- 3 **Monitor and manage your machines with AFS Connect™ Telematics**

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, reduce overlaps, cut input costs and maximise your profitability.

Puma tractors are available „AFS™ Accuguideready“ and can be fitted with an AFS Pro 700™ touchscreen monitor. This means that your dealer can pre-install a fully automatic, integrated GPS/GLONASS guidance system to give you industry-leading precision in the field. Add a local RTK+ signal station and it points you directly to 2.5 cm pass-on-pass accuracy. Don't worry about line-of-sight signal reception; our software features the xFill app that bridges the RTK+ system for up to 20 minutes so the AFS system keeps its sense of direction even in the shadow of buildings etc.

The optional Case IH AFS Connect™ telematics system allows farm owners and managers to monitor and manage their machinery from the farm office. They can track machines in real time on the farm computer to observe how the machines 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.



SERVICE TEAM

We'll keep you farming.

The Case IH **SERVICETEAM**, a strong dealer network backed up by local Case IH market teams, industry leading Case IH supporting tools, modern training methods, best in class spare parts support and logistics performance providing Case IH customers with an excellent all-encompassing after-sales service, keeping customers farming!

TECHNICAL SUPPORT | SERVICE | PARTS

GENUINE PARTS

WE KEEP YOUR EQUIPMENT RUNNING.

Protect the value of your investment. Behind every Case IH product stands an extensive parts logistics organisation, stocking parts for products both old and new. Choosing to fit genuine Case IH parts will maintain the safety, value and performance of your original investment.

MAINTAIN THE PRODUCTIVITY OF YOUR INVESTMENT.

Case IH and its dedicated dealer network provide excellent support when you take delivery of your new machine and whilst it remains in your ownership. On the farm, you can rely on trained service professionals to maintain the productivity of your investment.

SKILLED BUSINESS ADVISOR AT YOUR DEALERSHIP.

DEMAND MORE FROM YOUR CASE IH DEALERSHIP.

Purchasing a standalone piece of new equipment? Keeping a whole fleet up-to-date? Whatever your size of operation, contact your local Case IH dealership for professional advice on your business needs. Case IH knows your farming needs best.

MODELS	PUMA 140	PUMA 155	PUMA 180	PUMA 210	Puma 180 CVT	PUMA 225 CVT
ENGINE						
Number of cylinders / type	6 / turbocharged and intercooled					
Capacity (litres)	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
Rated power ECE R120 ¹⁾ (kW/hp(CV))	104 / 142	116 / 158	134 / 182	157 / 213	134 / 182	165 / 224
Rated power ECE R120 ¹⁾ Power Management ²⁾ (kW/hp(CV))	123 / 167	135 / 183	160 / 218	175 / 238	160 / 218	181 / 247
Rated engine speed (rpm)	2200	2200	2200	2200	2200	2200
Maximum power ECE R120 ¹⁾ (kW/hp(CV))	112 / 152	124 / 169	147 / 200	164 / 223	147 / 200	169 / 230
Maximum power ECE R120 ¹⁾ Power Management ²⁾ (kW/hp(CV))	131 / 178	142 / 193	172 / 234	178 / 242	172 / 234	185 / 251
... at engine speed (rpm)	1900 - 2000	1900 - 2000	1900 - 2000	1900 - 2000	1900 - 2000	1800
Maximum torque (Nm/rpm)	643 / 1400	690 / 1400	844 / 1400	866 / 1400	844 / 1400	950 / 1400
Maximum torque - Power Management ²⁾ (Nm/rpm)	678 / 1600	748 / 1600	938 / 1600	984 / 1600	938 / 1600	1025 / 1500
Torque rise Standard / Power Management ²⁾ (%)	42 / 27	37 / 28	45 / 35	27 / 30	45 / 35	32 / 30
Fuel tank (litres)	300	300	410	410	410	410
TRANSMISSION						
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					
FOUR-WHEEL DRIVE AND STEERING						
Type	Electro-hydraulic with management system					
Front axle suspension	○	○	○ Active	○ Active	○ Active	○ Active
Steering angle (°)	55	55	55	55	55	55
Min. turning radius ³⁾ track setting 1829 mm (m)	5.45	5.45	6.1	6.1	6.1	6.1
POWER TAKE OFF						
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			
Front PTO with 1000 rpm	○	○	○	○	○	○
HYDRAULIC SYSTEM						
Max. pump flow and system type main hydraulic (l/min)	113 PFC	113 PFC	120 PFC	120 PFC	120 PFC	120 PFC
System pressure (bar)	210	210	215	215	215	215
Control type	EHC with ride control					
Max. lift capacity (kg) Standard/Optional	6687 / 8257	6687 / 8257	10460 / -	10460 / -	10460 / -	10460 / -
Max. number of remote valves Standard / Optional	2 mechanical or 2 electronical / 3 or 4 mechan. or 3 or 4 electr.		3 mechanical or 3 electronical / 4 mechan. or 4 electr.		3 electronical / 4 or 5 electronical	
Max. number of mid mount valves with electronic joystick	3 electr.	3 electr.	3 electr.	3 electr.	3 electr.	3 electr.
Category type	Cat II / III	Cat II / III	Cat II / III	Cat II / III	Cat II / III	Cat II / III

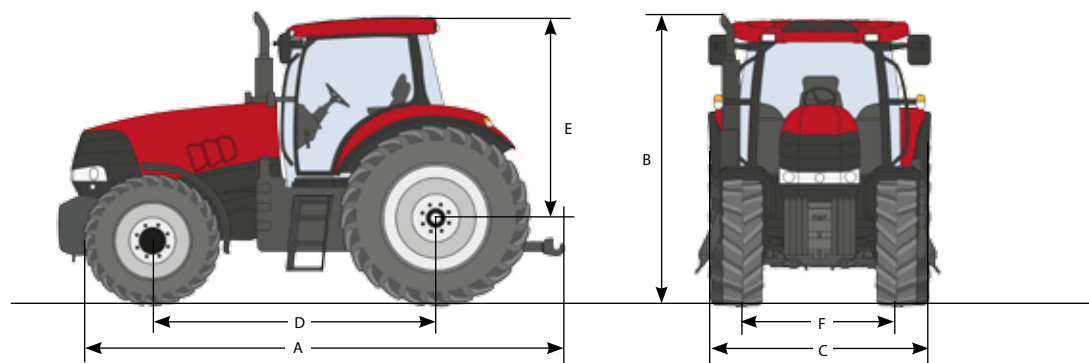
MODELS	PUMA 140	PUMA 155	PUMA 180	PUMA 210	PUMA 180 CVT	PUMA 225 CVT
WEIGHT						
Minimum weight (kg)	5400	5600	6850	6850	6850	7200
Permissible total weight (kg)	10500	10500	13000	13000	13000	13000
Max. permissible weight front (kg)	4900	4900	6000	6000	6000	6000
Max. permissible weight rear (kg)	7300	7300	9500	9500	9500	9500
DIMENSIONS³⁾						
A: Total length (mm)	4449	4449	4916	4916	4916	5017
B: Total height (mm)	2985	2985	3040	3100	3040	3100
C: Total width (across rear fenders with 150 mm extension) (mm)	2682	2682	2682	2682	2682	2682
D: Wheel base (mm) Standard/with front axle suspension	2734 / 2789	2734 / 2789	2884	2884	2884	2884
E: Height at centre of rear axle / highest point (mm)	2180	2180	2240	2240	2240	2240
F: Track setting front (mm)	1560 - 2256	1560 - 2256	1552 - 2269	1552 - 2269	1552 - 2269	1538 - 2260
rear (mm)	1470 - 2294	1470 - 2294	1524 - 2438	1524 - 2438	1524 - 2438	1530 - 2230
STANDARD TYRES⁴⁾						
Front	480/70R28	480/70R28	480/70R28	540/65R28	480/70R28	600/65R28
Rear	580/70R38	580/70R38	580/70R38	650/65R38	580/70R38	650/65R42

● Standard Equipment ○ Optional Equipment - Not available

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


2) Power Management is only available during 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 **AKCELA** lubricants.



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