

# PUMA

150, 165, 175 CVT DRIVE  
150, 165 MULTICONTROLLER



**CASE IH**



# THE PUMA SERIES

Efficient power for profitable farming



## TOP FEATURES OF EACH PUMA MODEL

### PUMA MULTICONTROLLER – THE MODERN ALL-ROUNDER

- Up to 4 mechanical or up to 5 electronic rear remote valves
- Multicontroller armrest
- 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 CVT DRIVE – THE SEAMLESS SOLUTION

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



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.

## 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

- Optional 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 CVT Drive and Puma Multicontroller)
- Patented trailer brake system – Advanced Trailer Brake for Puma CVT Drive

## TRANSMISSION

- PowerDrive full-powershift transmission
- CVT Drive 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 150l/min to 160l/min
- Up to 8,257kg lifting capacity
- Up to 5 electro-hydraulic rear remote valves (Puma CVT Drive and Puma Multicontroller) and up to 3 mid-mounted electro-hydraulic remote valves (for entire Puma range)
- Power-beyond connection on request









# POWER AND PERFORMANCE

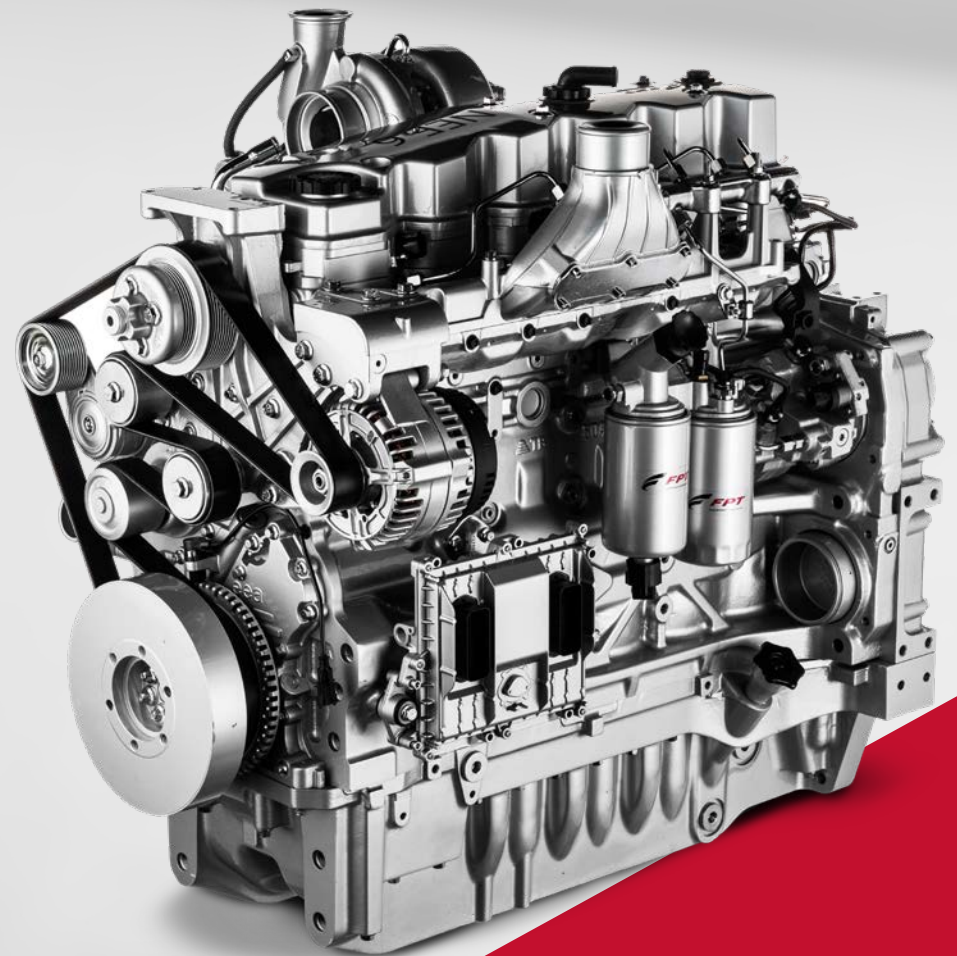
High-performance engine from FPT

**THESE ENGINES WILL WIN YOU OVER WITH PERFORMANCE, TORQUE, FUEL-EFFICIENCY AND RELIABILITY WHILE COVERING A RANGE OF 150-180HP (RATED POWER).**

All Pumas feature an engine power management boost for PTO, hydraulics and transport work, taking those horsepower figures to 190-225hp (maximum). The engine power management on Puma CVT Drive 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.

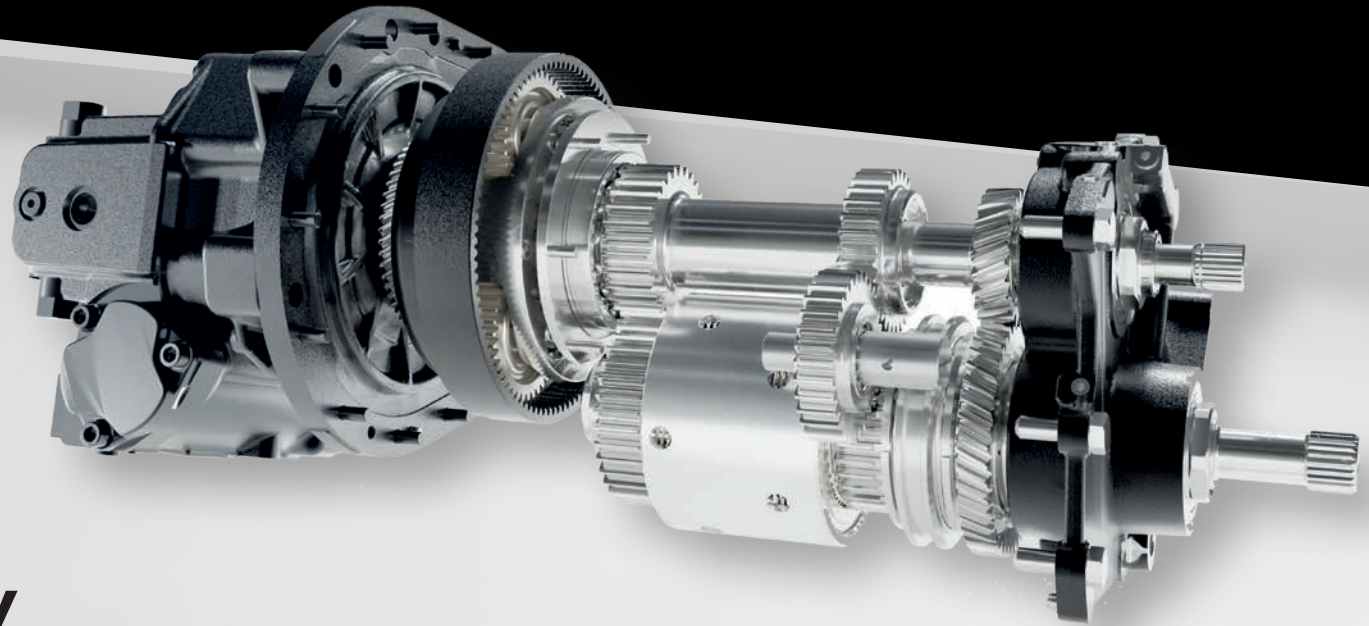
The Puma truly is a universal tractor. Thanks to its low weight and long 750 hour service interval, the Puma is a true all-rounder.

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

## **POWERDRIVE FULL-POWERSHIFT OR CVT DRIVE 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 two transmission options.

## **OPTIMUM PERFORMANCE**

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

The Puma CVT Drive 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.

## **ADVANTAGES**

- 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
- CVT Drive – continuously variable transmission with 0-50kph ECO capability and Active Hold function
- DKTTM double clutch technology on CVT Drive







# 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 20 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 70dB(A) inside the cab reduces fatigue

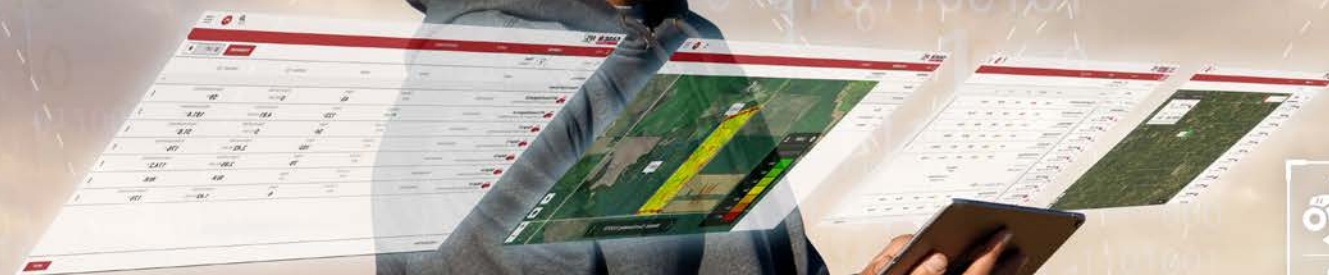


# SMART, COST-EFFICIENT AND ECO-FRIENDLY

## Case IH Advanced Farming System (AFS™)

Since its founding, Case IH has been setting milestones in the industry in terms of engines, transmissions and intuitive operating concepts. We look at existing potentials, develop suitable solutions, and implement them. We aren't satisfied until our innovations have simplified and improved your daily work.

Our AFS Advanced Farming Systems have set a trend for smart solutions in precision farming. AFS connects the tractor's and implement's control systems through full ISOBUS compatibility and HMC II headland management. Take advantage of your Puma's industry-leading technology for more performance, productivity and flexibility.





# CASE IH AFS™

## Take advantage of maximum precision – day in and day out

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 down to 2.5cm, reduce overlaps, cut operating costs and maximise your profitability.

### A FULLY-INTEGRATED SOLUTION

Your Puma CVT Drive can be made “AFS™ AccuGuide Ready” on the assembly line with installation of the AFS Pro 700™ touchscreen and steering position sensors. You may also choose to retrofit a fully-automatic GPS/Glonass steering assistance system. Using the signal from a local RTK+ station gives you track-to-track accuracy of 2.5cm. The RTK system bridges breaks in reception or signal drop-outs of up to 20 minutes with the xFill app, keeping you right on track even where there is shadowing due to buildings, etc.

With the optional Case IH AFS Connect™ telematics system, your Puma CVT Drive can be pinpointed in real time from the comfort of your office. An analysis of the performance data can help you optimise logistics and efficiency coupled with lower fuel consumption.

### ADVANTAGES

- Range of signal accuracies available
- Receivers use both GPS and GLONASS signals
- Low cost RTX signal solution
- Optional high accuracy RTK+ signal with accuracy levels close to 2.5cm
- Integrated automatic AccuGuide guidance
- xFill bridges RTK signal gaps of up to 20 minutes
- AFS Connect telematics provides machine tracking and performance data



Automated turning process with AFS AccuTurn Pro



xFill bridges RTK+ signal losses of up to 20 minutes



# AFS CONNECT

Manage your farm, fleet and data remotely



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. With all the information at your fingertips, you can successfully manage your operations anytime, anywhere!



## USER-FRIENDLY INTERFACE

- New, intuitive and redesigned interface with all information at your disposal
- Ergonomic platform divided into 3 sections: fleet, farm & data

## TIME-SAVING MANAGEMENT

- Visualisation of data from multiple machines in one field
- Manage your activity & transfer data from your office to machines and vice versa

## MAXIMUM PRODUCTIVITY-ENHANCING DECISION MAKING

- Notifications & visualisation of critical operating parameters
- Connect and share securely with Application Programming Interface (API)

Go anywhere, see everything

## RECEIVE UPDATES ON YOUR DAILY OPERATIONS

- See, share and manage data on the go, in real time, from any device
- View updated machine telematic data and fault codes remotely

## THE ULTIMATE SOLUTION FOR WHEN YOU'RE ON THE MOVE

- Live vehicle map lets you find machines' locations and get driving directions
- Share vehicle info, location and directions with various apps (e.g. WhatsApp) on your phone



## YOUR ALL-NEW DESTINATION FOR CASE IH PRODUCT SUPPORT

MYCASEIH is a new free cloud-based platform which gives you a single place to log in for access to everything related to your Case IH farm equipment. Find an overview of all your machine and equipment, manage your users and access a support knowledge section with operator manuals, support documents, parts catalogues and more. The platform is available on all devices: smartphone (Apple & Android), tablet and desktop.

VISIT US AT [MY.CASEIH.COM](http://MY.CASEIH.COM)







## FARM MANAGEMENT

### GET MORE DONE EACH DAY

Optimise your time by easily organising your fields, applications and agronomic data

### MANAGE YOUR COMPANY

Managing your fields and your data can be time-consuming. AFS Connect optimises your time by easily organising your fields, applications and agronomic data. With a wealth of information at your fingertips, you can boost your operation's performance.

**Data visualisation:** access agronomic data in near real-time for all your seeding, application and yield activities. Included: topographic, weather, equipment, or prescriptions information.

**Reporting:** capture all of your critical farming information on the go or directly from your equipment. Plan upcoming activities, manage logistics, share data with your trusted advisors and make informed decisions.

**Usability:** Keeping track of everything going on in your operation has never been easier. Whether you're on the road, in the field or at the office, the intuitive user interface keeps you informed.



## FLEET MANAGEMENT

### TRACK, MONITOR & MANAGE YOUR ENTIRE FLEET

Efficiently track your equipment's location & view machine parameters in real time

### MANAGE YOUR PRODUCTIVITY

When all your equipment operates efficiently with little to no idle time, you have the peace of mind that comes with working smarter and knowing that you're doing all you can to make the most of each growing season.

**Fleet overview:** access key information with detailed performance values for each machine by vehicle type. The map overview allows visualisation of connected equipment to more efficiently execute infield operations and coordinate the fleet.

**Vehicle details page:** access recent machine operations and get a 7 day report of the vehicle status by hours and fuel usage.

**Fault history and notifications:** view and filter the faults shown to the operator on the in-cab displays. Configure and setup notifications such as vehicle speeds, oil temperature, engine load or fuel level and receive them via web or via text messages.



## DATA MANAGEMENT

### CONNECT AND SHARE DATA

Securely share your farm data with trusted partners, anytime, anywhere

### MANAGE YOUR DATA EXCHANGE

Seamlessly manage, share and move data – all while ensuring you stay in complete control with your preferred trusted business partners.

**Secure data sharing:** Securely share selected data with trusted partners while keeping complete control of who can access each piece of generated data.

**Third-party partners:** wirelessly transfer two-way data between AFS Connect and trusted third-party suppliers to make the most of agronomic data and drive daily management decisions.

**Solutions for mixed fleets:** Case IH customers benefit from a comprehensive solution for sharing data thanks to two recent partnerships:

- DataConnect is a new cloud-to-cloud interface, in partnership with CLAAS, 365FarmNet, John Deere and New Holland. Mixed-brand fleets owners can look forward to easier data exchange and management without compatibility issues.





# AUTOMATED OPERATING SEQUENCES FOR INCREASED PRODUCTIVITY

Work productively, accurately, and in comfort with the headland management system, AccuTurn plus, and integrated ISOBUS compatibility

The monitor integrated into the operator's seat armrest gives the operator full control over all the tractor's automatic functions and connecting the reversing camera.

## HMC II

All Puma models feature Headland Management Control II, which is designed to assist the driver when turning at the headland. Each step can be programmed either by time or distance travelled. In addition, triggers for various other automated functions can be set, such as lowering the engine speed after lifting the implement.

A headland sequence can be recorded while driving or programmed on the stand. The sequence can be played back manually or automatically via the Multicontroller, the ICP control panel in the armrest, or the AFS Pro 700 monitor.



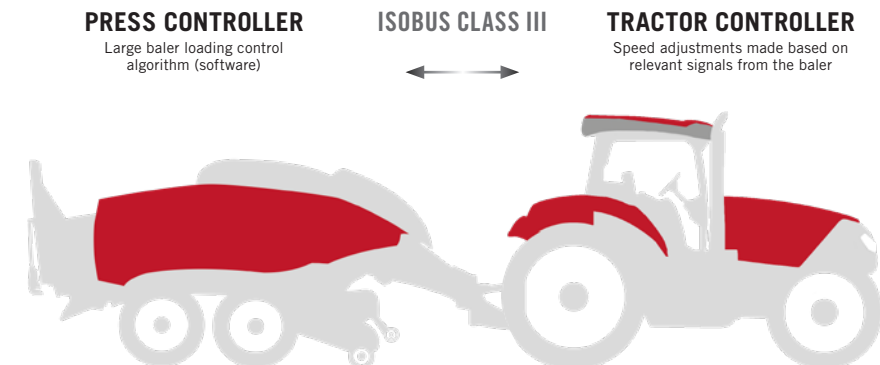
## ISOBUS III FOR BEST EFFICIENCY

In addition to the ISOBUS I and II standards, which suggest implement settings via the AFS Pro 700 monitor (Class I) and control implements (Class II), the Puma CVT Drive also offers ISOBUS Class III. With ISOBUS III, the implement automatically controls aspects of the Puma CVT Drive. The tractor will automatically adjust forward speed, steering (option), hitch position and PTO speed, as well as operating remote valves depending on the implement's needs. The result is perfect cooperation and improved efficiency of the implement and tractor.

ISOBUS functions can be configured onto existing controllers such as the Multicontroller, joystick and control levers.

## AUTOMATED TURNING PROCESS

Our brand new AFS AccuTurn Pro technology combines headland management and headland steering processes. Turning radius, speed, and implement control when turning on headlands are automated and optimised, resulting in increased efficiency and improved comfort.



MODELS	PUMA 150 CVT DRIVE	PUMA 165 CVT DRIVE	PUMA 175 CVT DRIVE	PUMA 150 MULTICONTROLLER	PUMA 165 MULTICONTROLLER
<b>ENGINE</b>					
Number of cylinders / Capacity (cm <sup>3</sup> )	6 / 6,700				
Type / Emission level	Common Rail Diesel engine, turbocharger and Hi-eSCR2 only exhaust after treatment / Stage V				
Maximum power ECE R120 <sup>1)</sup> Power Management <sup>2)</sup> (kW/hp(CV))	140 / 190	154 / 210	165 / 225	140 / 190	154 / 210
Maximum power ECE R120 <sup>1)</sup> (kW/hp(CV))	121 / 165	132 / 180	147 / 200	121 / 165	132 / 180
... at engine speed (rpm)	1,800				
Rated power ECE R120 <sup>1)</sup> Power Management <sup>2)</sup> (kW/hp(CV))	129 / 175	140 / 190	151 / 205	129 / 175	140 / 190
Rated power ECE R120 <sup>1)</sup> (kW/hp(CV))	110 / 150	121 / 165	132 / 180	110 / 150	121 / 165
... at engine speed (rpm)	2,200				
Maximum torque Power Management <sup>2)</sup> (Nm @ 1,500rpm)	805	875	940	805	875
Maximum torque (Nm @ 1,500rpm)	700	770	840	700	770
Torque rise standard / Power Management <sup>2)</sup> (%)	46 / 44	46 / 44	46 / 44	46 / 44	46 / 44
Fuel tank, diesel / urea (litres)	330 / 48				
<b>TRANSMISSION</b>					
CVT Drive - Continuously variable transmission 40kph ECO / 50kph ECO	○ / ●				—
19x6 PowerDrive - Full Powershift 40kph ECO / 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				
<b>POWER TAKE OFF</b>					
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)				
<b>FRONT PTO AND FRONT HITCH</b>					
Front PTO 1,000 speed @ engine rpm	1,895				
Front hitch OECD lift capacity through range @ 610mm (kg)	3,571				
<b>FOUR-WHEEL DRIVE AND STEERING (DRIVELINE)</b>					
Type	Electro-hydraulic with management system, differential lock as standard				
Front axle suspension 40kph / 50kph	○ / ●				○ / ●
Min. turning radius <sup>3)</sup> track setting 1,829mm (m)	5.45				
<b>HYDRAULIC SYSTEM</b>					
System type	Variable displacement, pressure flow compensated pump				
Max. pump flow rate Standard (l/min) / System pressure (bar)	160 / 210		150 / 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 electrical				
Max. number of mid mount valves with electronic joystick	3 electrical				
Remote valve timer control	1 - 60 seconds on all models				
Category type	Cat II / III				
Slip control	○				
<b>WEIGHT / DIMENSIONS <sup>3)</sup></b>					
Approximate shipping weight (kg)	7,000		6,950		
Permissible total weight (kg)	11,500		10,500		
A: Max. length with front and rear lower links down standard / suspended front axle (mm)	5,347				
B: Total height standard cab (mm)	3,026		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 / 2,790				
E: Height at centre of rear axle, highest point standard cab (mm)	2,210		2,210		
F: Track setting front / rear (mm)	1,560-2,100/1,528-2,100				

● 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 hydraulic, mobile PTO and haulage applications <sup>3)</sup> With standard tyres <sup>4)</sup> Other tyres on request





     
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