

X7.6



624 - 623 - 621 VT-DRIVE
623 - 621 - 620 P6-DRIVE





NEW X7.6 SERIES: EFFICIENCY AT ITS VERY BEST

For over 30 years, the Argo Tractors Group has focused its efforts on improving the quality and efficiency of its products. As a result of this strategic choice, Argo Tractors engineers have further upgraded McCormick's **X7.6** tractor range, which now leads its class in efficiency, performance, flexibility and comfort.

The new **X7.6** series has been designed to meet the most demanding needs of modern farmers and contractors. Inspired by the automotive design, the new **X7.6** tractor features more aggressive lines and a spacious cab with simple, ergonomically-arranged controls for easy and convenient operation. The cab roof has been fully restyled and the 12 work lights have been repositioned to provide full all-round visibility for night-time operation. The hood has also been redesigned with a more streamlined, aggressive look that enhances visibility to the front.

Boasting up to 240 hp, the new Betapower Fuel Efficiency

engines deliver maximum traction and best-in-class fuel efficiency, while allowing quick and easy maintenance. Equipped with the innovative HI-eSCR2 exhaust after-treatment system, the engines of the new **X7.6** series meet the Stage V emissions regulations.

The range comes with a choice of two transmissions: a P6-Drive powershift or a VT-Drive continuous variable transmission. The hydraulic system features a high-flow pump that provides 160 l/min. The electronic management of the hydraulic functions ensures accurate implement control. In addition, a 12-inch touch screen monitor allows implement operation to be controlled with extreme accuracy via a satellite-based guidance and ISObus system, thus maximising efficiency and productivity.

Choosing McCormick means you can count on a reliable partner that delivers cutting-edge technology along with outstanding performance and uncompromised reliability.

HIGHLIGHTS

Cab

- › McCormick Semi-Active Cab with four-post design and semi-active suspension system
- › DSM Data Screen Manager: 12-inch touch screen monitor with new functions
- › Automatic climate control
- › Electrically adjustable steering wheel

Design

- › Aggressive hood design and automotive-style cab
- › Up to 20 LED work lights on hood and cab

Engine

- › Emissions control technology with HI-eSCR2 system meeting Stage V
- › Engine located within a rugged chassis for best performance and enhanced traction
- › Coolers open out to allow easier and faster cleaning

- › Best in Class system: scheduled maintenance is reduced by half to save time and costs

Transmission

VT-Drive four-stage continuous variable transmission:

- › Four programmable speed ranges
- › Transmission controls integrated into the VT Easy Pilot proportional controller
- › Lower fuel consumption, reduced operating costs
- › 40km/h or 50 km/h ECO speed at reduced engine rpm, minimum speed 40 m/h

P6-Drive Powershift transmission with 6 powershift speeds and 5 ranges:

- › Robotized range shifting
- › Engine Brake function
- › Smart APS Powershift

- › Stop & Action with De-clutch function integrated in brake pedal
- › Creeper providing up to 54 forward and 27 reverse speeds with 400 m/h minimum speed
- › ECO mode for transport operations and Oil-Cut-Off feature for improved fuel economy

Axles

- › Electronically-controlled independent front suspension
- › Automatic 4WD and differential lock engagement

Hydraulic system

- › Closed-centre hydraulic system with 160 l/min variable displacement pump
- › Electronically-operated rear hitch with 9300 kg maximum lift capacity
- › Four-speed PTO as standard.



HYRAULIC SYSTEM

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SATELLITE-BASED GUIDANCE

PSM - EazySteer
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CAB

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ISObus

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ENGINE

powers - consumptions
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TRACTION

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TRANSMISSION

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HIGHLIGHTS

- › Four-post cab design
- › One-piece windscreen for unequalled all-round visibility
- › Mechanical or hydraulic semi-active cab suspension optional
- › Instrument panel and steering column electrically adjustable in tilt and depth
- › Ventilated air suspension seat with swivel optional
- › 12-inch DSM Data Screen Manager touch screen monitor with MyFunctions and MyLights features
- › Multifunction armrest with ergonomically-designed controller and integrated controls
- › Hide-away buddy seat for easier access to the cab
- › Automatic climate control
- › Opening transparent roof hatch
- › Automotive-style interior with soft-touch materials
- › Radio with MP3 player, Bluetooth and integrated microphone
- › Up to 20 latest-generation LED work lights on hood, cab and fenders

PREMIERE CAB: YOUR NEW OFFICE IN FIRST CLASS



The Premiere Cab is a new-concept four-post design with rear hinged doors that provides unobstructed visibility in all directions giving the driver full view of blind spots without the need to change position. The cab is pressurized to keep a clean, dust-free environment. A highly-efficient sound insulation system maintains an in-cab noise level of only 70 dB for maximum comfort of operation. The optional electrohydraulic semi-active cab suspension system further enhances the operator comfort. Wide, well-spaced access steps allow the operator to easily get in and out of the cab, while the buddy seat neatly folds away making for easier and safer access. The cab interior features an automotive-style fit and finish with easy-clean soft-touch materials.

The instrument panel and the steering wheel can be electrically adjusted in tilt and depth to suit the driver's needs. The alcantara swivel seat with dynamic air suspension system and fully automatic height adjustment features both heating and ventilation for ultimate driving comfort. The multifunction right-hand armrest accommodates the main tractor controls arranged in a simple and logical manner.

The ergonomically-designed multifunction controller provides easy and intuitive control of key tractor functions. Integrated into the armrest is a DSM 12-inch touch screen monitor with simple tablet-like graphics that allows the operator to quickly manage and adjust the tractor operating parameters. The new Premier Cab also offers additional new functions, such as front and rear view cameras and the MyHMF intuitive menu for automatic management of headland operations.



MyFunctions

The new MyFunctions menu provides fully customisable control of tractor and implement, allowing the operator to configure and save up to five different functions via the DSM monitor. Furthermore, all controls have been ergonomically repositioned on the multifunction armrest to improve comfort and ease of operation.



ELECTRICAL STEERING WHEEL

An innovative system allows the operator to adjust the inclination of the steering wheel through a simple switch. A lever also enables adjustment of steering wheel height.



MyHMF

The MyHMF menu allows the operator to set up and modify headland management sequences via the DSM monitor by choosing from the various tractor functions available. The system is controlled via logically-arranged pushbuttons for maximum comfort of operation.

The Premiere Cab's standard equipment includes a refrigerated in-cab storage compartment and bottle holder, 12V sockets for charging mobile devices, an internal mirror and an opening transparent roof hatch providing extra visibility for loader operations. Integrated into the cab roof, a highly efficient automatic climate control maintains the desired cab temperature whatever the outdoor weather conditions.

McCORMICK SEMI-ACTIVE CAB SUSPENSION

True to its mission to reduce farmers' fatigue, McCormick has designed and built Cab Suspension, a new electrohydraulic semi-active cab suspension system which isolates the tractor body from the wheel vibrations induced by uneven ground conditions, thereby ensuring maximum ride comfort and safety on all terrains.



CAB ROOF AND WORK LIGHTS

The cab roof of the new X7.6 tractor has been completely redesigned and the 12 work lights fitted to the roof have been repositioned to provide powerful all-round lighting for night-time work. All work lights can be configured via the MyLights in the DSM touch screen monitor.

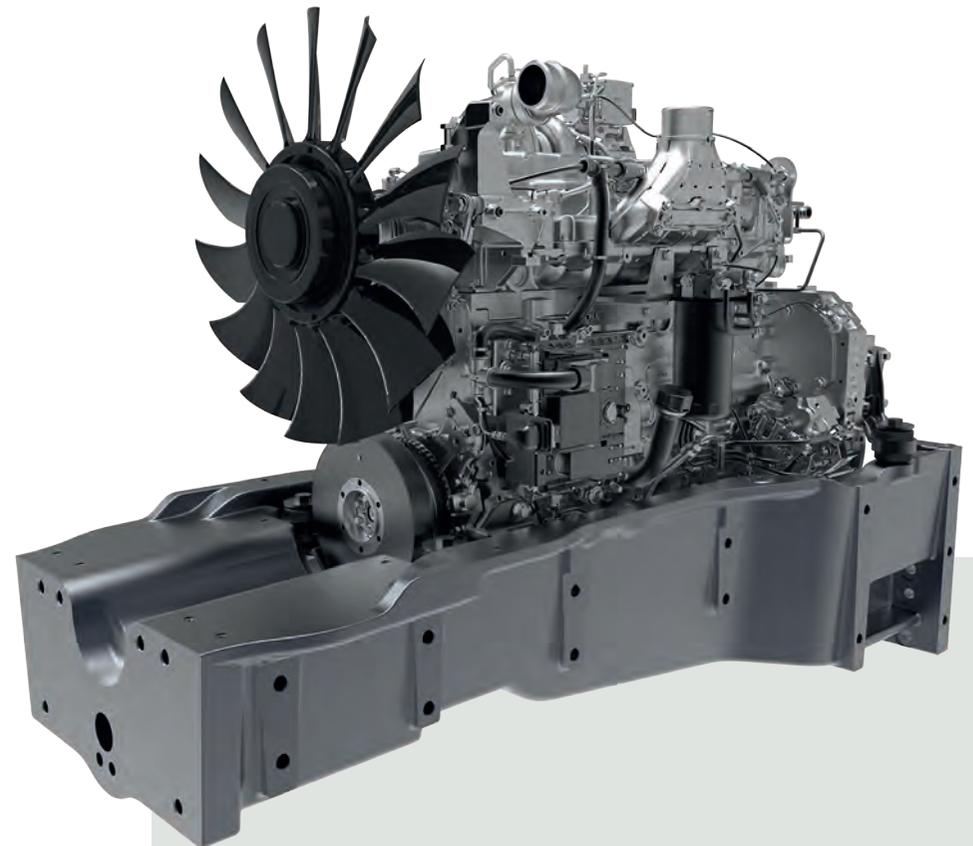
HIGHLIGHTS

- › More power with the Power Plus system, up to 240 hp
- › Electronic engine management with common rail injection system
- › High torque backup
- › Engine compliant with Stage V emissions regulations
- › Exhaust gas after-treatment with HI-eSCR2
- › Engine located within a rugged chassis
- › Easy-fill 350-liter fuel tank and 52-liter AdBlue® tank
- › Coolers open out to allow easier and faster cleaning
- › Viscotronic fan for more efficient engine cooling, improved fuel economy and low-noise engine operation
- › Best in Class system reduces scheduled maintenance by 50% thereby saving time and costs
- › Engine Brake function for enhanced braking performance

NEW BETA POWER FUEL EFFICIENCY: PLENTY OF PULLING POWER IN THE FIELD

The **X7.6** tractor range is powered by the new Beta Power Fuel Efficiency 6.7L six-cylinder turbo engines with multivalve technology and electronic common rail injection system. The engines are located within a rugged chassis which helps reduce noise and vibration levels within the cab. The engine cooling is ensured by an electronically-controlled viscotronic fan, which is standard on the entire range. This solution improves cooling efficiency while reducing fuel consumption and noise levels.

The new Beta Power Fuel Efficiency powering the **X7.6** series are cutting-edge engines designed to offer farmers simplicity and functionality without compromising on performance, reliability and durability. They feature the Power Plus system which electronically adjusts the engine power to respond to varying load conditions. During transport applications or PTO operations, the Power Plus automatically delivers additional 10 hp to handle tough conditions and heavy loads while maintaining speed and productivity. With the Power Plus the **X7.6** tractors will deliver maximum powers of 190, 210, 225 and 240 hp.



BEST IN CLASS SYSTEM

The engine of the X7.6 tractor is equipped with Best in Class system (BIC). The BIC system relies on an innovative filter use strategy which doubles the interval between maintenance operations, from 600 to 1200 working hours, helping save time and costs.

ENGINE BRAKE FUNCTION

A motorized throttle valve located on the turbocharger allows the tractor brake performance to be improved by activating the Engine Brake function via a pedal conveniently placed between the clutch and brake pedal.

RADIATOR MAINTENANCE

The tilt-up hood opens wide to provide easy access to the engine compartment for routine service and maintenance. The coolers located in front of the radiator open fully from a single latch to provide easy cleaning in dusty conditions.

HI-eSCR2 system to cut down on exhaust emissions

The compact design of the HI-eSCR2 exhaust after-treatment system helps meet the strictest particulate emissions requirements. This technology integrates the SCR catalyst with a maintenance-free filtering device and does away with the EGR system, thereby improving engine performance while reducing operating costs.

ENGINE CHASSIS

The X7.6 features a rugged chassis with shock absorbing rubber mounts which support the engine helping isolate both cab and transmission from vibrations.



HIGHLIGHTS

- › All transmission controls grouped on the VT Easy Pilot controller
- › Speed shifting without use of the clutch pedal
- › Soft acceleration, optimum speed, constant traction
- › Greater concentration on the job in hand with the user-friendly VT-Drive transmission
- › Lower fuel consumption, reduced operating costs
- › Remote Shuttle button for forward/reverse shifting
- › 40 km/h or 50 km/h top speed in ECO mode at reduced engine rpm, minimum speed 40 m/h

VT-DRIVE, THE CONTINUOUS VARYING TRANSMISSION

A powerful and versatile tractor range like the **X7.6** must be able to handle all kinds of tasks and field conditions. The VT-Drive continuous variable transmission is designed to ensure all the versatility and flexibility required by modern agriculture.

Combining a powerful engine with a VT-Drive four-stage continuous variable transmission featuring four planetary gear trains with oil-cooled clutches, the **X7.6** ensures fast acceleration and excellent responsiveness making work easier and more efficient. The VT-Drive transmission offers four speed ranges with advance speeds from 40 m/h to 50 km/h for maximum productivity in any application.

ELECTROHYDRAULIC POWER SHUTTLE

The reverse power shuttle allows the operator to automatically shift from forward to reverse without use of the clutch pedal, by simply operating the shuttle control lever adjacent to the steering wheel. The shuttle response is electronically modulated and adjustable by the operator if required for different tasks.



VT Easy Pilot multi-function controller

Integrated into the right-hand armrest, the VT Easy Pilot ergonomically-designed controller provides easy and intuitive control of the VT-Drive transmission, allowing the operator to drive the tractor and operate the implements with maximum ease and comfort.

The VT Easy Pilot allows the operator to activate up to five different functions, which can be set via the intuitive MyFunctions menu and recalled with the five pushbuttons present on the controller. Configurable functions include the speed cruise control, the headland management via the MyHMF menu and the remote shuttle function for automatic forward/reverse shifting without using the steering-column shuttle lever. All functions are clearly displayed on the instrument panel and on the touch screen monitor.

VT-Drive 4-stage continuous variable transmission

The McCormick VT-Drive transmission with its four-stage technology sets a new benchmark in continuous variable transmissions. Using a four-stage instead of usual two-stage CVT transmission offers real benefits to farmers and agricultural contractors who look for multi-purpose tractors capable of ensuring maximum productivity whatever the task or the field conditions.

This transmission offers four speed ranges to suit different operating requirements:

- Range 1 Creeper: 0.5 - 3 km/h
- Range 2 Field 1: 0.5 - 12 km/h
- Range 3 Field 2: 0.5 - 21 km/h
- Range 4 Transport: 0.5 - 40 o 50 km/h



The VT-DRIVE transmission features four operating modes:

- 1. Auto Mode** - The electronic control unit controls the engine rpm and transmission ratio, based on parameters set on the potentiometer, in order to achieve the required speed.
- 2. Manual Mode** -The operator sets the engine speed using the hand throttle. The electronic unit controls the transmission ratio in order to achieve the required speed.
- 3. PTO Mode** - The operator sets the engine speed using the hand throttle. The electronic unit controls the transmission ratio in order to achieve the required speed, with priority on PTO speed.
- 4. Cruise Mode** - The operator selects the tractor travel speed which remains constant.

HIGHLIGHTS

- › All transmission controls grouped on a single control lever
- › Robotized range shifting
- › Speed Matching: automatic powershift selection based on tractor speed
- › Smart APS Auto Powershift: automatic shifting through all powershifts
- › De-clutch button
- › Stop & Action function to integrate the De-clutch into the brake pedal
- › Left-hand steering-column power shuttle with response modulation
- › 54 forward speeds + 27 reverse speeds with creeper, minimum speed 400 m/h
- › ECO mode 40km/h for transport operations and Oil Cut-off mode for improved fuel economy

P6-DRIVE TRANSMISSION: THE RIGHT SPEED FOR EVERY APPLICATION

The P6-Drive transmission with five ranges and six-speed on-the-go powershift incorporates a robotized range shifting and an electrohydraulic steering-column power shuttle providing 30 forward and 15 reverse speeds. In addition, a creep speed option provides 54 speeds forward and 27 in reverse. Where legally permitted, a top speed of 50 km/h can be reached.

The P6-Drive transmission is also equipped with an Oil Cut-off function enabling more efficient management of the braking system for better on-road performance and improved fuel economy.



Multi-function controller

An ergonomically-designed controller integrated into the multifunction armrest provides easy and intuitive control of the P6-Drive transmission, allowing the operator to shift through all gears and ranges without depressing the clutch pedal. The powershift button enables seamless speed progression both in the field and on the road. The multifunction controller integrates all main functions for tractor and implement operation. The MyFunctions pushbuttons allow the operator to select and activate up to five different functions such as the APS Auto Powershift facility, differential lock, 4WD operation, De-clutch button, rear hitch fast raise/lower, speed cruise control, one remote valve and headland management. All functions are clearly displayed on the digital instrument panel and on the DSM touch screen monitor.

On the **X7.6** tractors with P6-Drive transmission, the cab is available in two versions:

- Premium, with controls on the multifunction armrest;
- Efficient, with controls on the right-hand console which also integrates the multi-function controller.

Smart APS Auto Powershift automatic transmission

On the **X7.6** range, the P6-Drive transmission can be controlled both manually and automatically. Based on load conditions, engine speed and rpm, the Auto Powershift (APS) facility automatically selects the right gear in each range. This improves tractor performance and driving safety while optimizing fuel economy.

Stop & Action system

The Stop & Action system integrates the De-clutch function into the brake pedal. This allows the operator to stop the tractor without depressing the clutch pedal and without using the power shuttle. By the combined use of the Stop & Action and APS systems, the P6-Drive transmission ensures a smooth driving, comparable to that of a CVT transmission.



PREMIUM CAB TRIM

Cab with Premium trim: the controls of the P6-Drive transmission are integrated into the armrest of the driver's seat.



EFFICIENT CAB TRIM

Cab with Efficient trim: the controls of the P6-Drive transmission are integrated into the ergonomic right-hand console.

ELECTROHYDRAULIC POWER SHUTTLE

The reverse power shuttle allows the operator to automatically shift from forward to reverse without use of the clutch pedal, by simply operating the shuttle control lever adjacent to the steering wheel. The shuttle response is electronically modulated and adjustable by the operator if required for different tasks.

SMART APS AUTO POWERSHIFT

The Smart Auto Powershift (APS) will change the powershift speeds based on engine speed parameters and load for up and downshifting. These parameters can be adjusted by the APS dial in the armrest from an ECO through to a Power setting.



X7.6: TRACTION, MANOEUVRABILITY AND COMFORT ON ALL TERRAINS

With the engine located within a chassis and the rugged front axle with independent wheels, the **X7.6** is the tractor that transfers more power to the ground in its class. The **X7.6** offers outstanding traction and excellent manoeuvrability ensuring optimum grip and stability for superior driving comfort in the field and on the road. The front axle is equipped with full hydraulic locking differential and electro hydraulic four-wheel drive engagement

ensuring maximum efficiency and safety on all terrains. High capacity wet multi-disc rear axle brakes ensure safe controlled stopping power. Also when braking, the four-wheel drive engages automatically, which in turn brakes the front axle for efficient braking on all four wheels. All **X7.6** tractors are equipped with brake power boosting system to reduce the effort required by the operator while improving driving accuracy.



THE X7.6 KNOWS HOW TO PUMP UP YOUR PRODUCTIVITY

The X7.6 series tractors feature a closed-centre hydraulic system with variable-displacement pump. This means that the pump always delivers exactly the quantity of oil that the system requires, thereby eliminating unnecessary power waste. The system supplies up to 160 l/min to the hitch and remote valves, allowing for simultaneous operation of all hydraulic functions. The hydraulic system also includes a steering pump with 44 l/min flow rate.

The X7.6 range has been designed to operate in a variety of conditions with heavy, power-demanding implements. The PTO offers four speeds: 1000, 1000Eco, 540 and 540Eco rpm and the driveline design ensures minimal power loss and

therefore maximum productivity. An electro hydraulically operated clutch enables smooth and modulated engagement of the PTO, ensuring a soft start-up of the implement. The X7.6 series tractors are equipped with the Power Plus system, which automatically increases power available when the PTO is operational.

This enables the engine to maintain a constant power as the load varies, allowing optimum use of the PTO for enhanced tractor performance and productivity. The rear hitch is equipped with lower link draft sensing for accurate implement control and provides a maximum lift capacity of 9300 kg.

REMOTE VALVES

The X7.6 tractors can be fitted with up to eight electro hydraulically-controlled double-acting remote valves. A three-way flow divider with push-pull connectors is available as an option to operate three different hydraulic functions with a single remote valve. The valves are operated via three fingertip controls and an electronic mini-joystick integrated into the multifunction armrest.





PRECISION FARMING: THE TECHNOLOGY THAT IMPROVES YOUR PRODUCTIVITY

Satellite-based guidance: higher accuracy, greater productivity

The optional satellite-based guidance system is controlled via a dedicated 8.4-inch touch screen monitor in conjunction with a satellite antenna fitted on the roof of the tractor cab.

The monitor manages two functions:

1. The Precision Steering Management system: using the real-time kinematic (RTK) navigation method, the system provides precise steering control in row-crop operations delivering up to 2cm pass-to-pass accuracy. Such a high level of precision greatly increases productivity per unit land area. Supplied in conjunction with the satellite guidance system is also the Eazysteer function, which allows the tractor to make a complete turn with just a quick turning of the steering wheel. This avoids multiple turns of the steering wheel, thereby improving ride comfort and optimising working time.
2. Configuration and control of the ISObus system with management of advanced features such as ISO-TC and TC-GEO.

Benefits of satellite-based guidance and ISObus system

The satellite-based guidance and the ISObus system maximise efficiency and productivity while improving riding comfort and safety:

- › Each implement operation is controlled with extreme accuracy. The implement can also be managed automatically.
- › Reducing the travelled distance in the field reduces tractor and implement wear and saves fuel.
- › The application of variable rate treatments eliminates skips and overlaps, minimizing product wastes.
- › Precision farming reduces chemical residues.
- › To make satellite-based guidance safer, the **X7.6** is equipped with sensors which detect persons or things that are not displayed on the satellite map.
- › Report and pre-setting operations become more user-friendly and can be done from home without assistance from specialized operators.

ISObus for simple and efficient implement control

The **X7.6** tractor range can be optionally equipped with an ISObus system, a protocol for data communication between tractor, implement and on-board computer, that enhances operating efficiency and productivity. With the ISOBUS system, the operator can manage the operating parameters and performance of the implement via a simple DSM 12-inch touch screen monitor, without the need to install a dedicated control unit inside the cab.



EAZYSTEER

Supplied in conjunction with the satellite guidance system is also the Eazysteer function which allows the tractor to make a complete turn with just a quick turning of the steering wheel. This avoids multiple turns of the steering wheel, thereby improving ride comfort and optimising working time.



McCormick Fleet Management

Fleet Management is the McCormick telematic system which monitors the activities of your fleet of tractors to maximise efficiency and reduce operating costs. McCormick Fleet Management performs the following activities:

1. Monitors your fleet in real time: displays the exact position of all your tractors and provides real-time information on the status of machines such as speed, engine rpm, work progress and consumptions.
2. Analyses data: determines the efficiency and productivity of each machine and calculates the profit margin of your business.
3. Performs remote diagnostics: identifies and resolves any issues with the machines to reduce downtime and extend equipment life
4. Stores working data: to eliminate errors and maximize productivity.

Fleet Management

		X7.621 VT-DRIVE	X7.623 VT-DRIVE	X7.624 VT-DRIVE
ENGINE PERFORMANCE				
Rated power (97/68 CE - ISO TR 14396)	HP / kW	194 / 143	205 / 151	219 / 161
Rated power with Power Plus (97/68 CE - ISO TR 14396)	HP / kW	194 / 143	205 / 151	219 / 161
Max power (97/68 CE - ISO TR 14396)	HP / kW	200 / 147	215 / 158	230 / 169
Max power with Power Plus (97/68 CE - ISO TR 14396)	HP / kW	210 / 155	225 / 166	240 / 176
Rated engine speed	rpm	2200		
Engine speed - max power	rpm	1900		
Max torque without Power Plus, (with Power Plus) - Engine speed at 1400 rpm	Nm	840 (860)	904 (921)	966 (983)
Torque backup without Power Plus, (with Power Plus)		36% (41%)		
Manufacturer - Brand		FPT - Beta Power Fuel Efficiency		
Engine type - Installation type		NEF 67 - engine iso-mounted on cast iron chassis		
Exhaust gas after-treatment Stage V / Tier 4 Final		HI-eSCR2		
No. of cylinders / Displacement / No. of valves		6 / 6.7 l / 24		
Air filter system		air filter with pre-cleaning stage and dust ejector		
Air inlet system		turbo intercooler		
Fuel injection system		electronically-controlled high-pressure common rail injection system		
Maintenance		BIC Best in Class - 1200 hours interval maintenance		
Cooling system		matrix radiator pack - coolers open out from single latch		
Viscotronic fan		●		
CAPACITIES				
Fuel tank	litres	350		
AdBlue / DEF tank	litres	52		
Cooling system	litres	29		
TRANSMISSION				
Type		VT-Drive continuous variable transmission		
No. of stages		4		
Minimum speed	m/h - rpm	40 - 2200		
40 km/h - engine speed	rpm	● - 1550		
50 km/h - engine speed	rpm	○ - 1690		
Transmission control		VT-Easy Pilot on multi-function arm rest		
Reverse power shuttle		electro-hydraulic with modulated engagement		
REAR PTO				
Type		electro-hydraulic multidisc with modulated engagement		
Speeds		540 / 540 E / 1000 / 1000 E		
PTO rated speeds	rpm	2005 / 1608 / 1995 / 1600		
Rotation - spline shaft type		clockwise (viewed from tractor rear) ● 1' 3/8" 6-spline shaft / ○ 1' 3/8" 21-spline shaft		
FRONT AND REAR AXLES				
Front rigid axle		●		
Front suspended axle		○ - IFS with independent front wheels suspension system		
Traction type		electro-hydraulic MFWD		
Front differential lock		100% electro-hydraulic		

	X7.621 VT-DRIVE	X7.623 VT-DRIVE	X7.624 VT-DRIVE
FRONT AND REAR AXLES			
Rear differential lock	100% electro-hydraulic		
Rear axle - flanged type	●		
Rear axle - bar axle type	○		
BRAKING SYSTEM			
Front braking system	auto MFWD engagement while braking		
Rear braking system	5 bath oil cooled discs		
Trailer braking system	2 or 2+1 lines pneumatic system MR with or without single line hydraulic system, 2 line hydraulic system MR (40 km/h only)		
Engine brake	●		
HYDRAULIC SYSTEM			
Hydraulic piston pump with CCLS (Closed Center Load Sensing) system - flow rate	● - 123 l/min		
Hydraulic piston pump with CCLS (Closed Center Load Sensing) system - high-flow rate	○ - 160 l/min		
Steering dedicated pump - flow rate	● - 44 l/min		
Rear spool valves type, flow rate, min - max	electro-hydraulic, 100 l/min flow rate, 3 - 6		
Flow divider with flow selector - section flow rate	3 sections with push-pull connectors - 60 l/min flow rate per section		
Free flow return	●		
Power Beyond adaptor and free flow return	○		
Power Beyond with push-pull connectors and free flow return	○		
Mid-mounted remote valves - flow rate	2 electro-hydraulic with multi-function joystick - 100 l/min flow rate		
Hydraulic oil take out	litres	40	
REAR 3-POINT HITCH			
Electronically-controlled rear hitch	lower link draft control, position control mixed control, float position		
Category - coupler type	III - quick-couplers		
Max lifting capacity at hitch couplers	kg	9300	
FRONT 3-POINT HITCH			
Electronically-controlled front hitch	○ - with position control		
Category - coupler type	III N - quick-couplers		
Max lifting capacity at 610 mm	kg	3500	
FRONT PTO			
Type	○ - electro-hydraulic multidisc with modulated engagement		
Speeds	1000		
PTO rated speeds	rpm	1920	
Rotation - spline shaft type	○ - clockwise (viewed from tractor front) - ● 1' 3/8" shaft with 6 splines		
Rotation - spline shaft type (NAO version)	○ - counter-clockwise (viewed from tractor front) - ● 1' 3/8" shaft with 21 splines		
CAB			
Première Cab - 4 post cab with McCormick mechanical suspension	●		
McCormick semi-active suspension	○ - electronically controlled electro-hydraulic semi-active cab suspension system		
In-cab noise level	dB(A)	71	
Automatic climate control	●		
Deluxe air-suspension seat	● - low-frequency air suspension, swivel and height adjustments, automatic weight control, lumbar support and headrest		

		X7.621 VT-DRIVE	X7.623 VT-DRIVE	X7.624 VT-DRIVE
CAB				
Super Deluxe air-suspension seat		○ - Dynamic Damping System, backrest ventilation, alcantara upholstery, swivel and height adjustments, automatic weight control, lumbar support and headrest		
Hide away buddy seat		●		
VT-Easy Pilot on multi-function armrest		●		
DSM Data Screen Manager		● - 12" monitor touchscreen		
Radio adaptor		● - with 4 loudspeakers		
Radio system		○ - radio DAB mp3, with 4 loud speakers, bluetooth, aux-in adapter and integrated microphone		
Halogen work lights		● - 18		
LED work lights		○ - 20		
Beacon lights		● left side - ○ left and right side		
ADDITIONAL EQUIPMENT				
Front ISOBus		○		
Rear ISOBus		○		
PSM Precision Steering Management & EazySteer - adaptor		○		
PSM Precision Steering Management & EazySteer - EGNOS full kit		○		
PSM Precision Steering Management & EazySteer - RTK NTRIP full kit		○		
McCormick Fleet Management - 3 years of full plan subscription		●		
WEIGHT AND DIMENSIONS				
Wheelbase	mm	2820		
Max height over cab without beacon lights (with PSM satellite steering system)	mm	3044 (3159) - measured with tires 540/65R30 - 650/65R42		
Max height from rear axle centre to cab roof (with PSM satellite steering system)	mm	2180 (2295)		
Max length with front weights - Max track width	mm	5360 - 2550 measured with tires 600/60R30 - 710/60R42		
Turning radius	mm	5400, measured with tires 540/65R30 - 650/65R42		
Shipping weight - measured with average specifications	kg	8300		
Gross vehicle weight	kg	13000		
Max front and rear tire sizes - (Index Radius- IR)	mm	600/60R30 (IR 700) - 710/60R42 (IR 925)		
Front weight support		●		
Weights - No. x weight	kg	○ - 12 x 45 or 16 x 45		
Front hitch weight	kg	○ - 800 or 1400		
Rear axle weights	kg	○ - 170 or 340 or 510		

Key: ● standard ○ option

		X7.620 P6-DRIVE	X7.621 P6-DRIVE	X7.623 P6-DRIVE
ENGINE PERFORMANCE				
Rated power (97/68 CE - ISO TR 14396)	HP / kW	175 / 129	194 / 143	205 / 151
Rated power with Power Plus (97/68 CE - ISO TR 14396)	HP / kW	175 / 129	194 / 143	205 / 151
Max power (97/68 CE - ISO TR 14396)	HP / kW	180 / 132	200 / 147	215 / 158
Max power with Power Plus (97/68 CE - ISO TR 14396)	HP / kW	190 / 140	210 / 155	225 / 166
Rated engine speed	rpm	2200		
Engine speed - max power	rpm	1900		
Max torque without Power Plus, (with Power Plus) - Engine speed at 1400 rpm	Nm	756 (778)	840 (860)	904 (921)
Torque backup without Power Plus, (with Power Plus)		36% (41%)		
Manufacturer - Brand		FPT - Beta Power Fuel Efficiency		
Engine type - Installation type		NEF 67 - engine iso-mounted on cast iron chassis		
Exhaust gas after-treatment Stage V / Tier 4 Final		HI-eSCR2		
No. of cylinders / Displacement / No. of valves		6 / 6.7 l / 24		
Air filter system		air filter with pre-cleaning stage and dust ejector		
Air inlet system		turbo intercooler		
Fuel injection system		electronically-controlled high-pressure common rail injection system		
Maintenance		BIC Best in Class - 1200 hours interval maintenance		
Cooling system		matrix radiator pack - coolers open out from single latch		
Viscotronic fan		●		
CAPACITIES				
Fuel tank	litres	320		
AdBlue / DEF tank	litres	52		
Cooling system	litres	29		
TRANSMISSION				
Type		P6-Drive - 6 powershift speeds and 5 ranges		
No. of gears		● 54FWD + 27REV with creeper - ○ 30FWD + 15REV without creeper		
Minimum speed	km/h	0.4 with creeper - 3.2 without creeper		
40 km/h - engine speed	rpm	● - 1505		
50 km/h - engine speed	rpm	○ - 1880		
Transmission control		P6-Easy Pilot on right-hand console (EFFICIENT version) - P6-Easy Pilot on multi-function armrest (PREMIUM version)		
Reverse power shuttle		electro-hydraulic with modulated engagement		
APS - Auto PowerShift		● - electronically-controlled automatic powershift and range shifting		
REAR PTO				
Type		electro-hydraulic multidisc with modulated engagement		
Speeds		540 / 540 E / 1000 / 1000 E		
PTO rated speeds	rpm	2000 / 1588 / 2002 / 1590		
Rotation - spline shaft type		clockwise (viewed from tractor rear) ● 1" 3/8" 6-spline shaft / ○ 1" 3/8" 21-spline shaft		
FRONT AND REAR AXLES				
Front rigid axle		●		
Front suspended axle		○ - IFS with independent front wheels suspension system		
Traction type		electro-hydraulic MFWD		

	X7.620 P6-DRIVE	X7.621 P6-DRIVE	X7.623 P6-DRIVE
FRONT AND REAR AXLES			
Front differential lock		100% electro-hydraulic	
Rear differential lock		100% electro-hydraulic	
Rear axle - flanged type		●	
Rear axle - bar axle type		○	
BRAKING SYSTEM			
Front braking system		auto MFWD engagement while braking	
Rear braking system		5 bath oil cooled discs	
Trailer braking system		2 or 2+1 lines pneumatic system MR with or without single line hydraulic system, 2 line hydraulic system MR (40 km/h only)	
Engine brake		●	
HYDRAULIC SYSTEM			
Hydraulic piston pump with CCLS (Closed Center Load Sensing) system - flow rate		● - 123 l/min	
Hydraulic piston pump with CCLS (Closed Center Load Sensing) system - flow rate ultraflow		○ - 160 l/min (PREMIUM version)	
Steering dedicated pump - flow rate		● - 44 l/min	
Rear remote valves, type, flow rate, min - max		mechanical, 80 l/min flow rate, 2 - 3 mechanical + 1 electro-hydraulic (EFFICIENT version) electro-hydraulic, 100 l/min flow rate, 3 - 6 (PREMIUM version)	
Flow divider with flow selector - section flow rate		3 sections with push-pull connectors - 60 l/min per section (PREMIUM version)	
Free flow return		●	
Power Beyond adaptor and free flow return		○	
Power Beyond with push-pull connectors and free flow return		○	
Mid-mounted spool valves - flow rate		2 electro-hydraulic with multi-function joystick - 100 l/min flow rate	
Hydraulic oil take out	litres	40	
REAR 3-POINT HITCH			
Electronically-controlled rear hitch		lower link draft control, position control, intermix and floating	
Category - coupler type		III - quick-couplers	
Max lifting capacity at hitches	kg	● 6400 ○ 9300 (EFFICIENT version) - ● 9300 (PREMIUM version)	
FRONT 3-POINT HITCH			
Electronically-controlled front hitch		○ - with position control	
Category - coupler type		III N - quick-couplers	
Max lifting capacity at 610 mm	kg	3500	
FRONT PTO			
Type		o - electro-hydraulic multidisc with modulated engagement	
Speeds		1000	
PTO rated speeds	rpm	1920	
Rotation - spline shaft type		○ - clockwise (viewed from tractor front) - ● 1' 3/8" shaft with 6 splines	
Rotation - spline shaft type		○ - counter-clockwise (viewed from tractor front) - ● 1' 3/8" shaft with 21 splines	
CAB			
Premiere Cab - iso-mounted four-post cab		●	
McCormick mechanical suspension		○ - mechanical cab suspension system	
McCormick semi-active suspension		○ - electro-hydraulic semi-active cab suspension system electronically controlled	
In-cab noise level	dB(A)	70	
Manual climate control		● (EFFICIENT version)	

		X7.620 P6-DRIVE	X7.621 P6-DRIVE	X7.623 P6-DRIVE
CAB				
Automatic climate control			● (PREMIUM version) - ○ (EFFICIENT version)	
Comfort air-suspension seat		● (EFFICIENT version) - swivel and height adjustments, automatic weight control, lumbar support and headrest		
Deluxe air-suspension seat		● (PREMIUM version) - low-frequency air suspension, swivel and height adjustments, automatic weight control, lumbar support and headrest		
Super Deluxe air-suspension seat		○ (PREMIUM version) - Dynamic Damping System, backrest ventilation, alcantara upholstery, swivel and height adjustments, automatic weight control, lumbar support and headrest		
Hide-away buddy seat		●		
P6-Easy Pilot on right-hand console		● (EFFICIENT version)		
P6-Easy Pilot on multi-function armrest		● (PREMIUM version)		
DSM Data Screen Manager		○ - (PREMIUM version) - 12" monitor touchscreen		
Radio adaptor		● - with 4 loudspeakers		
Radio system		○ - radio DAB mp3, with 4 loud speakers, bluetooth, aux-in adapter and integrated microphone		
Halogen work lights		● - 12 (EFFICIENT version) - 18 (PREMIUM version)		
LED work lights		○ - 20 (PREMIUM version)		
Beacon lights		● left side - ○ left and right side		
ADDITIONAL EQUIPMENT				
Front ISOBus			○	
Rear ISOBus			○	
PSM Precision Steering Management & EazySteer - adaptor			○	
PSM Precision Steering Management & EazySteer - EGNOS full kit			○	
PSM Precision Steering Management & EazySteer - RTK NTRIP full kit			○	
McCormick Fleet Management - 3 years of full plan subscription			●	
WEIGHT AND DIMENSIONS				
Wheelbase	mm		2820	
Max height over cab without beacon lights (with PSM satellite steering system)	mm		3044 (3159) - measured with tires 540/65R30 - 650/65R42	
Max height from rear axle centre to cab roof (with PSM satellite steering system)	mm		2180 (2295)	
Max length with front weights - Max overall track	mm		5360 - 2550 measured with tires 600/60R30 - 710/60R42	
Turning radius	mm		5400, measured with tires 540/65R30 - 650/65R42	
Shipping weight - measured with average specifications	kg		8000	
Gross vehicle weight	kg		13000	
Max front and rear tire sizes - (Index Radius- IR)	mm		600/60R30 (IR 700) - 710/60R42 (IR 925)	
Front weight support			●	
Weights - No. x weight	kg		○ - 12 x 45 or 16 x 45	
Front hitch weight	kg		○ - 800 or 1400	
Rear axle weights	kg		○ - 170 or 340 or 510	

Key: ● standard ○ option



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