

X7.6 Series



MCCORMICK





McCORMICK X7.6 A PERFECT MIX OF PERFORMANCE, VERSATILITY AND COMFORT

Each McCormick tractor reflects the passion and dedication of those involved in designing, testing and producing this incredible line-up of tractors. The new X7 tractors offer the ultimate in style, technology, operator comfort and productivity.

The X7.6 tractor range are all powered by new FPT NEF 6.7-cylinder turbocharged diesel engines with multi-valve technology and common rail fuel injection. These engines meet Tier 5 final emissions regulations using advanced SCR, an exhaust gas after-treatment technology that reduces harmful emissions without compromising engine performance.

The X7 models are equipped with 6.7 liter, 6-cylinder engines that sit in a heavy cast steel frame, which helps reduce noise and vibration levels within the cab.

The X7 range comes with a P6-Drive transmission. The new P6-Drive models offer 54 speeds with 6 powershifts . All speed changes are fully automated using convenient push button controls.

The transmission has a power shuttle lever on the left side of the steering column, while speed controls reside in the right-hand multi function controller.

HIGHLIGHTS

| MODEL | RATED HP | MAX HP |
|---------------|----------|--------|
| X7.617 | 165 | 151 |
| X7.618 | 176 | 159 |
| X7.620 | 190 | 175 |
| X7.623 | 225 | 205 |

- › Manufactured, Designed, and Engineered by McCormick.
- › 6.7 liter FPT NEF diesel engine
- › Spacious 4 post cab design with flat foot deck, easy access, & hideaway instructor's seat
- › Multi-Function Control armrest with integrated controls (premium & CVT models) for effortless operation
- › Instrument Panel tilting with steering column and available color touch screen monitor
- › Automatic climate control for increased operator comfort
- › Turbocharged and intercooled with electronic engine management for power and fuel efficiency
- › Efficiency features for increased ease of maintenance
- › Electro-hydraulic range shifting for ease of operation
- › Auto Power Shift system with automated speed changes for reduced workload
- › 32 mph (50kph) transport capability
- › Electronic 4wd clutch automatically engages for 4-wheel braking and added safety
- › Fully locking front and rear differentials
- › Closed Center PFC hydraulic system for on demand hydraulic flow without power waste
- › 4 speed PTO standard equipment





HOOD DESIGN

FAMILY STYLE

CAB

STANDARD & PREMIUM
OPTIONS

ENGINE

NPT ENGINE, 6.7 L

REAR HITCH

20,500 LB LIFT
(PREMIUM & CVT)

CHASSIS

CAST STEEL
FRONT FRAME

TRANSMISSION

POWER SHIFT

REAR PTO

540/540E/1000/1000E

LUXURY CABS: CHOOSE TO YOUR NEW FIELD OFFICE

The X7 series cab features a four-post frame with flat foot deck, large rear hinged doors that provide ease of access to the driving position, and a one-piece panoramic widescreen that gives all-round visibility. The deluxe upholstered swivel seat with dynamic air suspension system and fully automatic height adjustment features an optional climate control system and a multi-function right-hand armrest that houses the main tractor controls. Also integrated into the armrest is a 12" data screen manager (DSM) touch screen monitor that controls tractor performance and functions. The telescopic tilt-adjustable steering wheel is designed to tilt with the instrument panel.

The premium cab also includes several new features as standard equipment, including an inside rear view mirror, additional 12V sockets for portable devices, a bottle holder and a refined roof hatch frame.

The cab is pressurized to keep a clean, dust free environment and has a sound level of only 70 dBa. A highly efficient automatic climate control in Premium models maintains the desired cab temperature regardless of the outdoor weather conditions. To further increase operator comfort, an electronically-controlled hydraulic cab suspension system is available as an option.



X7 P6-Drive models available in premium configuration feature our premium cab with multi-function controls integrated into the right-hand armrest featuring the latest technology.



X7 P6-Drive models available in standard configuration feature our efficient cab with multi-function controls integrated into the right-hand console featuring mechanical valve controls.

HIGHLIGHTS

- › 4-post cab design with spacious platform - Easy access
- › Deluxe air suspended swivel seat with optional ventilation - Increased operator comfort
- › Instrument panel tilting with steering wheel - Always visible
- › Available DSM color touchscreen monitor - Versatility
- › Automatic climate control available - increased operator comfort
- › Hide away instructor's seat - increased safety and ease of access
- › Ergonomic controls - versatile operation
- › Hydraulic cab suspension available - unmatched comfort
- › Pressurized cab for acoustic insulation - pleasant work environment
- › All transmission controls grouped into single control handle - Operator convenience



The driving position features a large and comfortable air-suspended driver's seat that can be optionally equipped with a heating and ventilation system. An instructor can also travel in comfort thanks to an innovative, upholstered seat, which neatly folds away to allow easier and safer access to the cab.



Modern and Intuitive, the digital front instrument panel keeps the operator constantly informed of the tractor's performance. The instrument panel is designed to tilt with the steering wheel so that it is always clearly visible.



The modern 12-inch DSM color touchscreen monitor is bright and provides easy and intuitive control of tractor functions. ISOBUS technology allows DSM to control ISO-compliant implements for convenient operation.



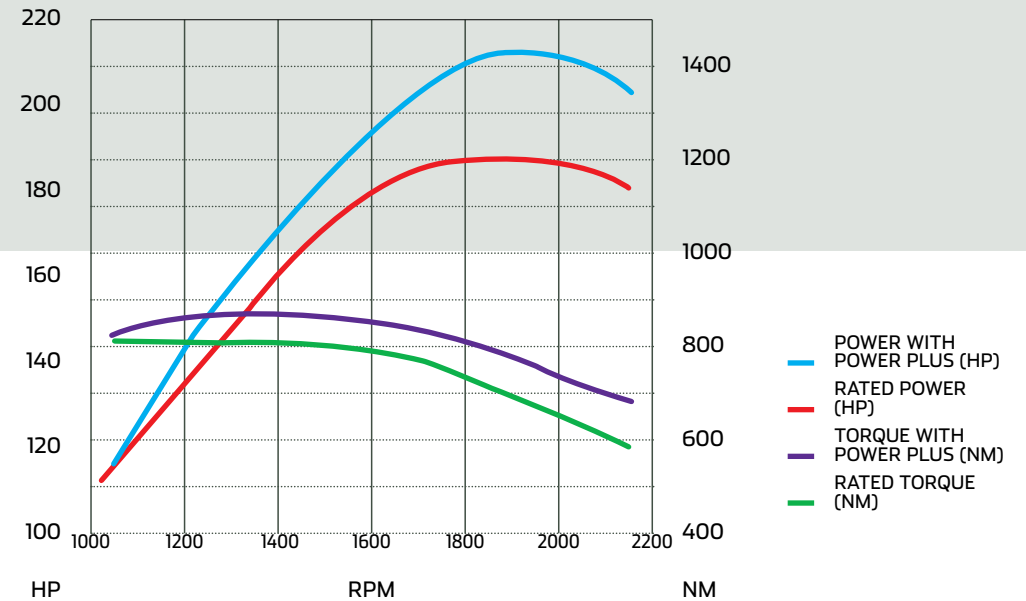
Heavy duty HVAC with twin blowers moves a high volume of air to keep the operator comfortable in any weather conditions. Automatic climate control in Premium models is conveniently built into a stylish roof console. An opening transparent roof hatch with sunshade provides extra visibility for loader operations.

P6-DRIVE TRANSMISSIONS: Versatile and- Maximum efficiency

The NEW P6-Drive Transmission features 30 speeds in 5 ranges with 6 powershift gears in each range. Incorporated is electronic range shifting and a separate, electro-hydraulic power shuttle. In addition, a creeper gearbox is standard, providing additional 24 forward and reverse speeds for a total of 54 speeds.

The P6-Drive transmission is designed to ensure the operator has the right speed for every application, and offers a top speed of up to 32mph (50kph) when properly equipped.

ENGINE POWER MANAGEMENT WITH POWER PLUS



VT-DRIVE TRANSMISSIONS: Versatile and- Maximum efficiency

VT-Drive four-stage continuously variable transmission

Features four programmable speed ranges.

Low fuel consumption for reduced operation costs.

40 km/h or 50 km/h ECO speed at reduced engine rpm,
minimum speed 40 m/h.

The VT-Drive transmission ensures a responsive drive in all conditions. Combining a powerful engine with the VT-Drive continuously variable transmission, the X7.6 tractor range delivers fast acceleration and excellent responsiveness in any situation.



VT-Drive, the best variable transmission ever

Designed to perform every task with maximum efficiency, the VT-Drive continuously variable transmission rolls into the future with an innovative next generation four-stage technology.

The VT-Drive transmission makes your work easier

Release the parking break, select the drive direction with the shuttle lever and step on the gas pedal. It couldn't be easier. The VT-Drive transmission does really simplify your work. The ease of operation, combined with intuitive controls and a tablet-like touch screen interface, makes the X7.6 the ideal workmate for every farmer.



Traction, Maneuverability, and Comfort on all terrains

Outstanding traction is always guaranteed from the X7 Series, thanks to the heavy duty 4wd front axle and fully locking rear differentials at the front and rear. Both the 4wd and differential lock functions can be set to work automatically using either a built-in 'Auto' capability or the headland management system.

X7 tractors are extremely nimble and easy to drive. High capacity wet multi-disc rear axle brakes on each side of the differential are hydraulically boosted to ensure safe, controlled stopping power. The tractor may be optionally equipped with hydraulic and/or pneumatic trailer braking systems for total transport safety and road legislation. Connectors at the rear are easily accessible for trailer connection.



CAB & INDEPENDENT FRONT AXLE SUSPENSION

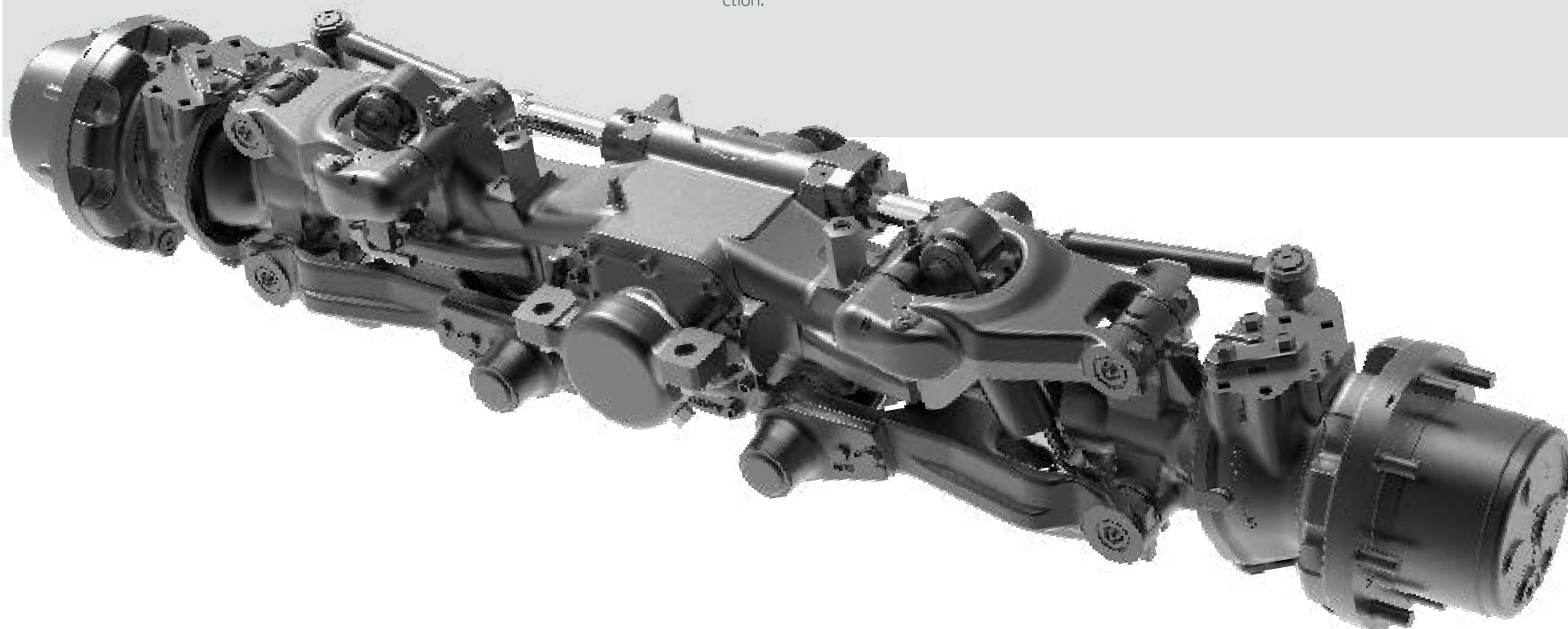
The X7 Premium models can be equipped with an electronically controlled independent front suspension system for extra comfort and increased performance. The suspended axle, along with the optional electro-hydraulic cab suspension, allows the X7 tractors to achieve superior levels of performance, ensuring maximum ride comfort and safety on all terrains.



AUTOMATIC 4WD AND DIFFERENTIAL LOCK ENGAGEMENT

All X7 Series models are equipped with combined front and rear differential locks to reduce wheel slip and maximize traction.

The system is controlled electronically through an 'Auto' function, which automatically engages or disengages the differential lock and the four-wheel drive during headland turns. Engagement of the 4wd and differential lock can also be controlled automatically using the headland management function.





Performance for the Toughest Demands Versatile Rear-End for any Application

The 6-cylinder FPT 6.7L engine features a thick cast steel front frame with a shock absorbing rubber mounts that support the engine in the rigid structure for added chassis strength, greater weight, and reduced noise and vibration levels within the cab.



REAR PTO FUNCTIONS

The X7 range has been designed to operate in a variety of conditions with heavy, power demanding implements. The rear PTO includes four speeds (540/540E/1000/1000E RPM), and the driveline design ensures minimal power loss and maximum productivity. An electro-hydraulic wet multi-disc clutch ensures smooth and modulated engagement of the PTO, even under heavy loads. Models with PowerPlus will automatically increase the horsepower available when the PTO is engaged and under load.

External PTO and hitch controls are located on the rear fenders, making it easier to attach implements from the ground.

The Auto PTO feature will automatically disengage the PTO as the rear 3-point hitch raises, and engage the PTO as the hitch lowers. This reduces the potential for implement driveline damage and gives the operator precise control of a mounted implement during headland turns.



FRONT HITCH AND PTO

A front hitch and PTO are available as an option on premium and VT-Drive Models. Combining front and rear implements provides greater tractor versatility and improves overall productivity. Control switches at the front allow the operator to raise and lower the hitch for easier implement connection.



High Performance Front Loaders

Each X7 tractor can be equipped with a front loader to improve overall versatility. All McCormick loaders are built by Alo, a global loader in the design and manufacture of front loaders. Customers can choose between self leveling and non-self leveling designs to match individual needs. Each loader can be quickly removed and installed without tools to improve the tractor's versatility. Alo's popular "Euro-type" quick attachment system for loader tools lets the operator quickly and easily change between loader buckets and tools.

| Loader Model | | L61 | L68 | L78 |
|---|---------|-----------------------------------|------------------|------------------|
| Loader Type | | Non-Self Leveling | Self Leveling | Self Leveling |
| Max. Lift Height to Pivot Point | in (mm) | 167 (4250) | 167 (4250) | 181 (4600) |
| Lift Capacity to Max. Height 31.5" (800mm) Fwd of Pivot Pin | lb (kg) | 4,190 (1900) | 5,450 (2470) | 5,490 (2490) |
| Breakout Force from Ground Level 31.5" (800 mm) Fwd of Pivot Pin | lb (kg) | 9,130 (4140) | 10,010 (4540) | 10,140 (4600) |
| Max. Lift Height Under Level Bucket | in (mm) | 155 (3950) | 155 (3950) | 169 (4300) |
| Compatible Tractor Model | | X7.617 / X7.618 / X7.620 / X7.623 | | |

| Tractor Model | | X7.617 P6-DRIVE | X7.618 P6-DRIVE | X7.620M / X7.620 P6-DRIVE | X7.623M / X7.623 P6-DRIVE |
|---|--|--|--------------------|------------------------------|------------------------------|
| Configurations Available | | Standard | Standard | Standard Premium | Standard Premium |
| Performance | | | | | |
| Max. ISO Engine HP @ 2200 RPM | HP (kW) | 165/114 | 176/122 | 190/32 | 225/158 |
| Max. ISO Engine HP @ 2000 RPM* | HP (kW) | 151/95 | 159/104 | 175/103 | 205/126 |
| Engine | | | | | |
| Engine Type | FPT NEF 6.7L, 6-cylinder TACR, Tier 5 Final with Hi-eSCR2 | | | | |
| Engine Size | 6.7 Liter, 6-cylinder | | | | |
| Fuel / DEF Capacity | gal (liter) | 73.9 (280) + 12 (46) DEF | | 84 (320) + 12 (46) DEF | |
| Drive Train | | | | | |
| Transmission Type | P6-Drive Transmission, 54 fwd x 27 rev gears, shift by wire, Power shuttle, 25 mph | | | | |
| Rear Axle | Rear axle: flanged type | | | | |
| Optional Rear Axle | Bolt on bar axle for rear dual tires | | | | |
| Differential Lock | Fully electrohydraulic wet clutch | | | | |
| 4wd Front Axle | Rigid front axle | | | | |
| Tire Type | Radial tires standard | | | | |
| Hydraulics, 3-point Hitch, PTO | | | | | |
| Implement Hydraulic System Type/Max. Flow | gpm (lpm) | CCLS variable displacement hydraulic pump 123 l/min + steering pump 52 l/min | | | |
| Hydraulic Flow Rate | gpm (lpm) | 32.49 (123) | | | |
| Rear Remote Valves | 3 rear spool valves (2 mechanical KO/FL + 1 mechanical FL) | | | | |
| Rear 3-point Hitch Type | 3-point linkage, Category 3 with telescopic ball ends and sway blocks | | | | |
| Rear 3-point Lift Capacity @ Hitch | lb (kg) | 14,080 (6,400) | | 14,109 (6,400) | 20,503 (9,300) |
| Rear PTO | 4-Speed rear PTO (540/540E/1000/1000E) with electrohydraulic engagement | | | | |
| Operator's Area | | | | | |
| Cab | High-visibility 4-post premier cab with soft touch interior | | | | |
| Seat and Front Dash | Air suspension swivel seat with height adjustment, head rest, arm rests and OPS | | | | |
| Wheelbase | in (mm) | 111 (2,820) | | | |
| Height Over Cab with Standard Wheels | in (mm) | 115 (2,942) | | 119.84 (3,044) | |
| Overall Length with Front Weights | in (mm) | 210.39 (5,344) | | 211 (5,360) | |
| Base Weight without Ballast | lb (kg) | 15,013 (6,810) | | | |

* Manufacturer's calculated estimate. +/- 5% tolerance.

** With PowerPlus feature (boost). Boosted power is available only when certain operating conditions are met.

| Tractor Model | | X7.621 CVT-DRIVE | X7.623 CVT-DRIVE | X7.624 CVT-DRIVE |
|---|---|--|---------------------|---------------------|
| Performance | | | | |
| Max. ISO Engine HP @ 2200 RPM | HP (kW) | 200/147 | 215/158 | 230/169 |
| Max. ISO Engine HP @ 2000 RPM* | HP (kW) | 210/155 | 225/166 | 240/176 |
| Engine | | | | |
| Engine Type | BATAPOWER 6.7L, 6-cylinder TDCR, Tier 5 Final with Hi-eSCR2 | | | |
| Engine Size | 6.7 Liter, 6-cylinder | | | |
| Fuel / DEF Capacity | gal (liter) | 92 (350) + 12 (14) DEF | | |
| Drive Train | | | | |
| Transmission Type | VT-Drive continuously variable transmission (CVT) | | | |
| Rear Axle | Rear axle: flanged type | | | |
| Optional Rear Axle | Bolt on bar axle for rear dual tires | | | |
| Differential Lock | Fully electrohydraulic wet clutch | | | |
| 4wd Front Axle | Rigid front axle | | | |
| Tire Type | Radial tires standard (black rims) | | | |
| Hydraulics, 3-point Hitch, PTO | | | | |
| Implement Hydraulic System Type/Max. Flow | gpm (lpm) | Load sensing variable displacement hydraulic pump 123 l/min + steering pump 44 l/min | | |
| Hydraulic Flow Rate | gpm (lpm) | 32.49 (123) | | |
| Rear Remote Valves | 4 rear spool valves with float, electro-hydraulic operation | | | |
| Rear 3-point Hitch Type | 3-point linkage, Category 3 | | | |
| Rear 3-point Lift Capacity @ Hitch | lb (kg) | 20,460 (9,300) | | |
| Rear PTO | 4-Speed rear PTO (540/540E/1000/1000E) with electrohydraulic engagement | | | |
| Operator's Area | | | | |
| Cab | High-visibility 4-post premier cab with noise reduction, LED courtesy light, and cooler | | | |
| Seat and Front Dash | Semi-active hydraulic cab suspension, head rest, arm rests and OPS | | | |
| Wheelbase | in (mm) | 111 (2,820) | | |
| Height Over Cab with Standard Wheels | in (mm) | 115 (2,942) | 119.84 (3,044) | |
| Overall Length with Front Weights | in (mm) | 210.39 (5,344) | 211 (5,360) | |
| Base Weight without Ballast | lb (kg) | 18,298 (8,300) | | |

* Manufacturer's calculated estimate. +/- 5% tolerance. ** With PowerPlus feature (boost). Boosted power is available only when certain operating conditions are met.



McCormick North America
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