New McCormick X7 Series, innovative design for supreme comfort and performance

Each McCormick tractor reflects the passion and dedication of those involved in designing testing and producing this superb range of tractors. With power ratings from 143 to 212 hp, these tractors offer the ultimate in style, technology, operator comfort and productivity.

Six models in the range are all powered by the new ‘Betapower Fuel Efficiency’ four-and six-cylinder turbo engines with multivalve technology and common rail injection system. These engines meet Tier 4 Interim emission regulations using the SCR system, an exhaust gas after-treatment technology that reduces exhaust emission without compromising engine performance. The X7.440, X7.450 and X7.460 models feature self-supporting 4.5L, four-cylinder engines, while the X7.660, X7.670 and X7.680 models are equipped with 6.7L, six-cylinder engines located within a rugged chassis which helps reduce noise and vibration levels within the cab. The X7 tractors have different wheelbases that help maximise stability and manoeuvrability.

The ‘PRO DRIVE’ transmission with 24 speeds in six ranges offers a four-speed on-the-go powershift and incorporates electro hydraulic range shifting and a left hand steering-column power shuttle. The transmission is controlled electronically via pushbuttons located on the multi-function armrest and features an ‘Autoshift’ function, ensuring easier operation in the field or during transport operations. A creep speed unit is available as an option for those tasks requiring slow speeds such as harvesting or specialist seed bed preparation.

The electro hydraulically-engaged rear PTO features an exchangeable shaft providing 6 or 21 splines and offers four speeds 540/540E/1000/1000E rpm. The electronic control of the PTO always ensures smooth and modulated implement start-up. The system also incorporates PTO headland management to eliminate implement drive line damage when raising the machine.

The closed-centre hydraulic system incorporates advanced features to deliver high efficiency and maximum reliability. The system is equipped with a variable-displacement pump that provides a flow rate of 123 l/min to operate all hydraulic functions and up to six electro hydraulic remote valves. The electronically-controlled rear hitch with draft sensing on the lower links provides a maximum lift capacity of 9300 Kg and allows a precise control of the implement. Also included is a Ride Control system to help protect the implement and reduce shock loadings on the tractor during transport. A radar sensor is also available for operations where true ground speed is required, this can also be used in difficult ground conditions to improve tractive performance and reduce wheel slip.

True versatility can be obtained with a front hitch capable of lifting up to 3500 Kg and a front PTO. Lift & Lower switches are provided at the front to assist in connecting or disconnecting front implements. The front axle, either rigid-mounted or with electronically-controlled independent suspensions, offers a 55° steering angle, providing excellent manoeuvrability in confined spaces.

The ‘PREMIERE CAB’ is a true high-tech control centre designed to offer the operator a safe functional ergonomic environment with logically-arranged controls for maximum comfort and ease of operation. The interior features a high-quality, automotive-grade fit and finish that further enhances the operator’s comfort.
DRIVER SEAT AND ‘HIDE AWAY’ BUDDY SEAT
The driving position features a large and stylish air-suspended driver seat that can be optionally equipped with heating and ventilation system. Passengers can also travel in comfort thanks to an innovative, upholstered buddy seat, which neatly folds away to allow easier and safer access to the cab. The in-cab storage compartment to the left of the operator is air-conditioned.

DIGITAL INSTRUMENT PANEL
Modern and intuitive, the digital instrument panel keeps the operator constantly informed on the tractor’s performance. The instrument panel is designed to tilt with the steering wheel so it is always clearly visible.
The ‘PREMIERE CAB’ is a true high-technology control centre that allows the operator to work the tractor with maximum ease and comfort. Designed to offer a safe stress-free working environment for long hours in the field, the ‘PREMIERE CAB’ is a four-post design with flat-deck platform and rear-hinged doors for ease of access to the driving position. The one-piece panoramic windsreen offers unequalled all-round visibility. The Alcantara upholstered swivel seat with dynamic air suspension system and fully automatic height adjustment features an optional backrest ventilation system and a multi-function right-hand armrest that houses the main tractor controls. The telescopic tilt-adjustable steering wheel is designed to tilt with the instrument panel. The cab is pressurized to keep a clean, dust-free environment and the highly-efficient automatic climate control maintains the desired cab temperature whatever the outdoor weather conditions. To further increase operator comfort an electronically-controlled hydraulic cab suspension system is available. The driving position is ergonomically designed and equipped with easy-to-use, logically-arranged controls. The cab interior features an automotive-style fit and finish with soft-touch materials and comes standard with radio with Bluetooth compatible phone, MP3 player and four loudspeakers for the maximum comfort of operation. The cab is further equipped with modern and stylish interior and exterior LED lights.

<table>
<thead>
<tr>
<th>KEY FEATURES AND BENEFITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>› FOUR-POST CAB DESIGN WITH SPACIOUS FLAT-DECK PLATFORM - EASY ACCESS</td>
</tr>
<tr>
<td>› VENTILATED AIR SUSPENSION SEAT WITH SWIVEL OPTIONAL - INCREASED OPERATOR COMFORT</td>
</tr>
<tr>
<td>› DRIVER’S ARMREST WITH INTEGRATED CONTROLS - EFFORTLESS OPERATION</td>
</tr>
<tr>
<td>› COMFORTABLE HIDE-AWAY BUDDY SEAT ENSURES EASE OF ACCESS</td>
</tr>
<tr>
<td>› AUTOMATIC CLIMATE CONTROL - TOTAL CONTROL OF AIR TEMPERATURE FOR INCREASED COMFORT</td>
</tr>
<tr>
<td>› OPENING TRANSPARENT ROOF HATCH</td>
</tr>
<tr>
<td>› HYDRAULIC CAB SUSPENSION (OPTIONAL) - LONGER WORKING HOURS &amp; GREATER COMFORT</td>
</tr>
</tbody>
</table>

"Premiere Cab", a true high-tech control centre
The 'POWER PLUS' system is designed to electronically adjust the engine power to respond to varying load conditions. During transport applications or PTO operations, the ‘POWER PLUS’ automatically delivers an additional 25 horsepower to handle tough conditions and heavy loads, while maintaining speed and productivity (for models X7.440 and X7.460 the Power Plus is not available).

ENGINE CHASSIS FOR X7.6
The six-cylinder models feature a rugged chassis with shock absorbing rubber mounts which support the engine helping to effectively reduce noise and vibration levels within the cab.

“Betapower fuel efficiency”
Tier 4 Interim engines with SCR system

The six models of the X7 series are powered by the new ‘Betapower’ Tier 4 Interim engines. The X7.4 model features a 4.5L, 4-cylinder engine, while the X7.6 model is powered by a 6.7L, 6-cylinder engine. All engines are equipped with turbocharger and common rail injection system and meet the Tier 4 Interim emission regulations using the SCR system, an exhaust gas after-treatment technology that reduces exhaust emission without compromising the tractor performance. The SCR technology utilizes a second fluid (AdBlue®) that is injected from a separate tank into the exhaust stream via an injector unit. The fluid reaches the SCR catalytic converter where it reacts with the exhaust gas, thus reducing significantly the NOx emissions. The optimised electronic fuel injection and the enhanced combustion efficiency, combined with the SCR system, allow these engines to deliver exceptional power with over 40% torque backup and outstanding fuel economy, thereby making for great flexibility of use.
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.

ADBLUE® TANK
The Adblue® tank holds 38 litres of fluid for the SCR system which represents the best solution to meet the Tier 4 Interim emission standards.
“The birth of a best seller”
MULTI-FUNCTION CONTROLLER (FIG. A)
An ergonomically-designed controller integrated into the right-hand armrest provides easy and intuitive control of key tractor functions including the ‘PRO DRIVE’ transmission, allowing the operator to shift through all gears and ranges by simply using his thumb and forefinger without depressing the clutch pedal.
The powershift button and the servo hydraulic range shifting allow seamless speed progression both in the field and on the road.

The multi-function controller incorporates our unique patented ‘My Switch’ button (P) that allows the operator to select and activate up to four different functions: the Autoshift facility, differential lock, 4WD operation and declutch button. Also built into the control handle are additional buttons to operate other functions such as the rear hitch fast raise lower, engine speed cruise control, one remote valve and the headland management. This allows the operator to drive and operate implements without taking his hand off the armrest controller. All functions are clearly displayed on the instrument panel.
New “Pro Drive” transmission with Autoshift

A powerful versatile range like the X7 must be able to handle all kinds of tasks and field conditions. That’s why McCormick engineers, drawing from years of experience in the high-power tractor sector, developed the new ‘PRO DRIVE’ transmission with electro-hydraulic power shuttle. Specially designed to suit the X7 series, the ‘PRO DRIVE’ transmission features 24 speeds in six ranges with four powershift steps in each range. Incorporated is a robotised range shifting and hydraulic power shuttle providing 24 forward and 24 reverse speeds. In addition, a creep speed option provides 40 forward and 40 reverse speeds.

The ‘PRO DRIVE’ transmission is designed to ensure the operator has the right speed for every application and offers a top speed of either 40 km/h in economy mode or 50 km/h where legally permitted. Management of the braking system controls the brake disc oil cooling during transport. This reduces internal losses as well as reducing fuel consumption.

Multi disc brakes are fitted to ensure safe positive stopping and long life.

**ADDITIONAL ELECTRONIC FUNCTIONS**
The electronic transmission management offers additional features that can be programmed by the operator via the pushbuttons integrated into the armrest:
- Selectable drive off gear.
- Range skip shifting.
- **Speed Matching**: automatic powershift selection based on tractor speed.
- **Autoshift**: automatic shifting through all powershifts with ECO/POWER modulation adjustment.
- De-clutch button.
- **Shuttle Modulation Control**: adjustment of power shuttle response (via instrument panel display).

**KEY FEATURES AND BENEFITS**
- All transmission controls grouped on a single control pommel - ease of control
- Robotised (electro hydraulic) range shifting - no linkages or cables
- Autopowershift: automatic powershifts - simple to drive
- Power shuttle with response modulation - smooth operation
- 'ECO' mode 40km/hr for transport operations for improved fuel economy
- Patented “My Switch” push button activates up to 4 functions with just one switch
- 40 forward speeds + 40 reverse speeds with optional creeper - ideal working speeds
CAB AND INDEPENDENT FRONT SUSPENSION
The X7 range can be equipped with an electronically-controlled independent front suspension for extra comfort. The independent front axle system is designed to allow each wheel to absorb impacts independently of one another. This makes for better grip and greater stability compared to conventional axles, resulting in improved driving safety.

The independent front suspension allows faster travel speeds and enhances operator comfort, whether in the field or on the road (Fig. A). The suspended axle, combined with the optional hydraulic cab suspension (McCormick Suspended Hydro Cab) (Fig. B), allows the X7 tractors to achieve superior levels of performance, ensuring maximum ride comfort and safety on all terrains.

Outstanding traction is always guaranteed from the X7 series, the tractor is equipped with full hydraulic locking differentials at the front and rear. These can be set to work automatically using the headland management system. The electro hydraulic four-wheel drive engagement uses a failsafe design so it is always engaged with the engine stopped, this results in the front and rear wheels being held when the parking brake is applied thereby providing maximum safety in any situation.

High capacity wet multi-disc rear axle brakes ensure safe controlled stopping power, these are power boosted to reduce the effort required by the operator. Also when braking, the four-wheel drive engages automatically, which in turn brakes the front axle for efficient braking on all four wheels. The tractor may be equipped with hydraulic/pneumatic trailer braking systems for total transport safety and road legislation.

OPTIMUM MANOEUVRABILITY
X7 tractors are extremely easy to handle. The four cylinder models have even greater agility and tighter turning, making them suitable for tasks where space is often limited. The 55-degree steering angle and the tight turning radius – 4800 mm and 5400 mm for the X7.4 and X7.6, respectively – all make for excellent manoeuvrability, while the hydrostatic drive delivers smooth steering control even at low engine rpm.

Traction, manoeuvrability and stopping power
AUTOMATIC 4WD AND DIFFERENTIAL LOCK ENGAGEMENT FOR EASY HEADLAND TURNING

All X7 Series models are equipped with combined front and rear differential locks to reduce wheel slip and maximise traction. The system is controlled electronically through the ‘AUTOMATIC’ function which automatically engages or disengages the differential lock and the four-wheel drive during headland operations (fig. C).
REAR PTO

The X7 range has been designed to operate in a variety of conditions with heavy, power-demanding implements. The PTO (fig. A) 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 (P) (fig. B), ensuring a soft start-up of the implement. Certain models 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. External PTO and hitch controls are located on the rear fenders making it easier to attach implements from the ground and control the PTO when using tanker for example (fig. C).
LOAD-SENSING HYDRAULIC SYSTEM
The X7 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 has a total flow of 167 l/min and supplies up to 123 l/min to the hitch and remote valves, allowing for simultaneous operation of all hydraulic functions.

ELECTRONICALLY-OPERATED REAR HITCH
With the raise/lower control (S) (fig. B) conveniently located on the multi-function controller and the main settings integrated into the right-hand console, the rear hitch guarantees precise implement operation. Offering a maximum lift capacity of 9300 kg, the three-point hitch is Category III and is equipped with lower link draft sensing for accurate implement control. (fig. A)

REMOTE VALVES
The X7 tractors can be fitted with up to six electrohydraulically-controlled double-acting remote valves. One valve is controlled by the multi-function controller and three are operated via fingertip controls integrated into the armrest which also includes a mini-joystick that operates the remaining two valves to control either a front hitch or a front loader. All valves can be set to operate for specific times or drive hydraulic motors, hydraulic power beyond is also built into for those machines requiring a dedicated oil supply (fig. B-D).

A unique mix of hydraulics and electronics

KEY FEATURES AND BENEFITS
› Closed-centre hydraulic system with variable-displacement pump (total flow 167 l/min).
› Electronically-controlled rear hitch
› 4-speed PTO as standard
› Constant PTO power with the power plus system
› Up to 6 dedicated electrohydraulic remote valves
› Front hitch and PTO option
<table>
<thead>
<tr>
<th>Engine</th>
<th>X7.440 Pro Drive</th>
<th>X7.450 Pro Drive</th>
<th>X7.460 Pro Drive</th>
<th>X7.660 Pro Drive</th>
<th>X7.670 Pro Drive</th>
<th>X7.680 Pro Drive</th>
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<tbody>
<tr>
<td>Tier 4 Interim / Stage 3B</td>
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<td>BetaPower</td>
<td>BetaPower</td>
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<td>676 (-)</td>
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<td>1500 (1500)</td>
<td>1500 (1500)</td>
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<td>41% (-)</td>
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<td>4500 / 4 / 16</td>
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<td>Pro Drive Transmission</td>
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<td>Pro Drive + Creeper + Power Shuttle: 40 FWD + 40 REV (4 Powershift Speeds in 6 Ranges)</td>
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Key: ● standard ○ option — not available
### BRAKING SYSTEM
- **Wet Multi-Disc Rear Brakes**
- **Automatic 4WD Engagement on Braking**
- **“Braking Booster System” Servo Brake**
- **Hydraulic Trailer Braking**
- **Pneumatic Trailer Braking**

### HYDRAULIC SYSTEM
- **Closed-Centre Circuit**
- **Hydraulic Pump Flow (L/min):**
  - X7.440: 123
  - X7.450: 123
  - X7.460: 123
  - X7.660: 123
  - X7.670: 123
  - X7.680: 123
- **Steering Pump Flow (L/min):**
  - X7.440: 44
  - X7.450: 44
  - X7.460: 44
  - X7.660: 44
  - X7.670: 44
  - X7.680: 44
- **Electrohydraulically-Controlled Remote Valves (STD/OPT):**
  - X7.440: 3/5 - 6
  - X7.450: 3/5 - 6
  - X7.460: 3/5 - 6
  - X7.660: 3/5 - 6
  - X7.670: 3/5 - 6
  - X7.680: 3/5 - 6

### "CAN BUS LIFT CONTROL" Hitch
- **Electrohydraulically-Controlled Hitch**
- **Functions: Position Control, Intermix, Float Control, Shock Absorber**
- **Max. Lift Capacity (Kg):**
  - X7.440: 9300
  - X7.450: 9300
  - X7.460: 9300
  - X7.660: 9300
  - X7.670: 9300
  - X7.680: 9300

### CAB AND DRIVING POSITION
- **'Premiere Cab' with Four-Post Design and Flat-Deck Platform**
- **'McCormick Suspended Hydro Cab' Electrohydraulically-Controlled Hydraulic Cab Suspension**
- **Heating / Ventilation**
- **Climate Control**
- **Digital Instrument Panel with Performance Monitor**
- **Super Deluxe Air Suspension Seat with Armrest**
- **Deluxe Low-Frequency Air Suspension Seat with Ventilation and Armrest**
- **Radio / Bluetooth / MP3 Ready**
- **ISOBUS Adaptor**
- **‘Hide Away’ Buddy Seat + Air-Conditioned In-Cab Storage Compartment**
- **LED Lights**

### DIMENSIONS AND WEIGHTS
- **Front Tyres:** 540/65R28
- **Rear Tyres:** 650/65R38
- **A - Max. Length (With Ballast Weights):**
  - X7.440: 5070
  - X7.450: 5070
  - X7.460: 5070
  - X7.660: 5260
  - X7.670: 5360
  - X7.680: 5360
- **B - Min. Width:**
  - X7.440: 2430
  - X7.450: 2430
  - X7.460: 2430
  - X7.660: 2430
  - X7.670: 2430
  - X7.680: 2430
- **C - Wheelbase:**
  - X7.440: 2600
  - X7.450: 2600
  - X7.460: 2600
  - X7.660: 2750
  - X7.670: 2820
  - X7.680: 2820
- **D - Height Over Cab:**
  - X7.440: 2920
  - X7.450: 2920
  - X7.460: 2920
  - X7.660: 2920
  - X7.670: 3055
  - X7.680: 3055
- **E - Ground Clearance:**
  - X7.440: 485
  - X7.450: 485
  - X7.460: 485
  - X7.660: 550
  - X7.670: 550
  - X7.680: 550
- **Total Weight Without Ballast Weights (Kg):**
  - X7.440: 5750
  - X7.450: 5750
  - X7.460: 5750
  - X7.660: 6550
  - X7.670: 7350
  - X7.680: 7350

### OPTIONAL EQUIPMENT
- **Front Ballast Weights (45 Kg Each):**
  - X7.440: 16
  - X7.450: 16
  - X7.460: 16
  - X7.660: 16
  - X7.670: 16
  - X7.680: 16
- **Front Hitch (Max. Lift Capacity):**
  - X7.440: 3500
  - X7.450: 3500
  - X7.460: 3500
  - X7.660: 3500
  - X7.670: 3500
  - X7.680: 3500
- **Front Hitch and PTO:**
  - X7.440: 
  - X7.450: 
  - X7.460: 
  - X7.660: O
  - X7.670: O
  - X7.680: O

**Key:**
- ●: standard
- ○: option
- —: not available
ENGINE POWER MANAGEMENT WITH POWER PLUS

CREEP SPEED OPTION IN THE 1ST TO 4TH RANGE WITH 540/65R30 OR 650/65R42 TYRES AT 2200 RPM