

X7



650 - 660 - 670 - 680 P6-DRIVE

**McCormick**

Power Technology.



NEW X7 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 superb X7 tractor range, which now leads its class in efficiency, performance, flexibility and comfort.

The new X7 series has been designed to meet the most demanding needs of modern farmers and contractors. Inspired by the automotive design, the new X7 tractor features a wrap-around design and a cab with flat-deck platform and easy-to-use, ergonomically-arranged controls.

Boasting up to 225 hp, the new Betapower Fuel Efficiency engines deliver maximum traction and best-in-class fuel economy, while allowing quick and easy maintenance.

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 thus maximising efficiency and productivity.

Choosing McCormick means choosing cutting-edge technology, uncompromised power and unbeatable reliability.

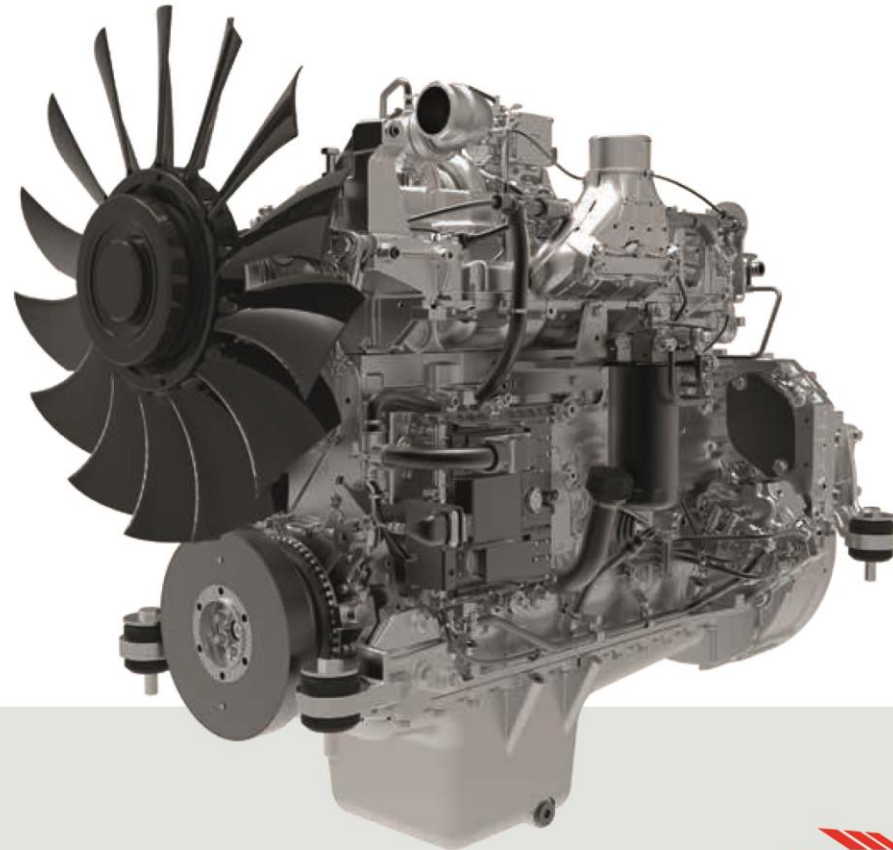
HIGHLIGHTS

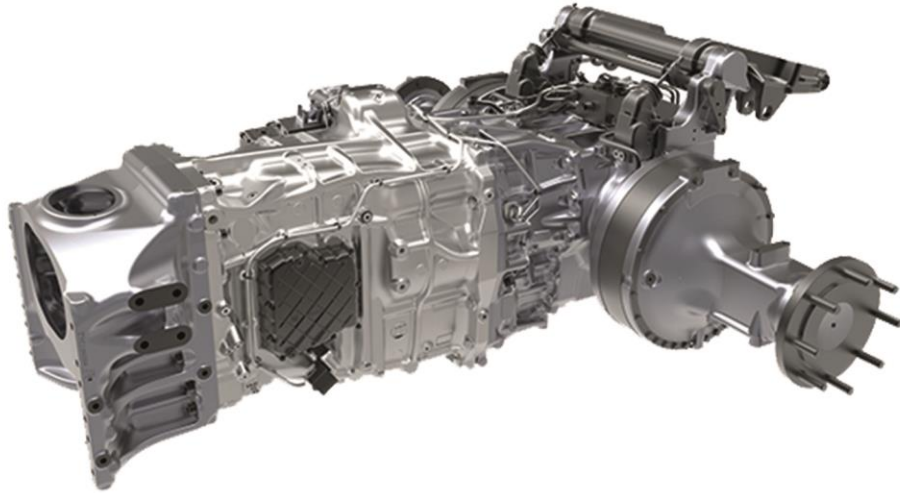
- › More power with the Power Plus system
- › Electronic engine management and turbo intercooler with common rail injection system
- › High torque backup
- › Engine compliant with Tier 3 Emission regulations
- › Chassis for six-cylinder models
- › Coolers open out to allow easier and faster cleaning
- › Low maintenance

Betapower engines: efficiency that improves your productivity

Four Models in the range are all powered by the new Beta Power Fuel Efficiency Turbo engines with the 4 valves per cylinder and common rail injection system.

The X7.650, 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 six-cylinder engines deliver power outputs of 116, 121, 133 and 140kW. These new engines meet the Stage 3 emissions regulations.





P6-DRIVE transmission, the right speed for every application

The P6-Drive transmission with five ranges and a 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 creeper speed option provides 54 speeds forward and 27 in reverse.

The X7 range features the Eco Forty mode that ensures a top speed of 40 km/h at reduced engine rpm.

In addition, the P6-Drive transmission is equipped with an Oil Cut-off function which manages the braking system more efficiently, thus ensuring better performance on the road and improved fuel economy.

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 powershifts
- › De-clutch button
- › Stop & Action function to integrate the De-clutch into the brake pedal
- › Shuttle control lever adjacent to the steering wheel with response modulation
- › 54 forward speeds + 27 reverse speeds with creeper (Optional)
- › Patented My Switch push button activates up to 4 functions with just one switch
- › ECO mode for transport operations and Oil Cut-off mode for improved fuel economy



HIGHLIGHTS

- › Closed-centre hydraulic system with variable-displacement pump (160 l/min hydraulic flow rate)
- › Electronically-controlled rear hitch with up to 9300 kg lift capacity
- › 4-speed PTO as standard
- › Constant PTO power with the Power Plus system
- › Up to 8 dedicated electrohydraulic remote valves
- › Front hitch and PTO option

Rear PTO

The X7 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 series tractors are equipped with 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 ergonomically-designed VT Easy Pilot controller enables comfortable and intuitive control of the rear hitch and implements. 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.

REMOTE VALVES

The X7 tractors can be fitted with up to eight electro hydraulically-controlled double-acting remote valves. These are operated via four fingertip controls integrated into the armrest and through a mini-joystick which operates two valves that control either a front hitch or a front loader.



AUTO PTO FUNCTION

The Auto PTO feature will automatically disengage and reengage the PTO at three-point linkage heights set by the operator. This gives the operator precise control of the implement during headland turns.



SIMPLE USE OF ELECTRONICALLY-CONTROLLED REAR HITCH

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



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 and a highly-efficient sound insulation system maintains an in-cab noise level of only 70 dB for maximum comfort of operation. The optional electrohydraulic 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 tilts with the steering wheel to suit the driver's needs.

The Alcantara swivel seat with dynamic air suspension system and fully automatic height adjustment features backrest heating and ventilation for ultimate driving comfort. The multi-function right-hand armrest accommodates the main tractor controls arranged in a simple and logical manner.

The ergonomically-designed VT-EasyPilot controller provides easy and intuitive control of key tractor functions.



The cab of the X7 tractor with P6-Drive transmission is available in two versions:

- › **Premium**, with controls on the armrest
- › **Efficient**, with controls on the right-hand console


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THE X7 KNOWS HOW TO PUMP UP YOUR **PRODUCTIVITY**

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 supplies up to 160 l/min to the hitch and remote valves, allowing for simultaneous operation of all hydraulic functions.

Each hydraulic circuit is equipped with a pump that supplies 44 l/min to the steering system.




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HIGHLIGHTS

Cab

- › Four-post design with flat-deck platform
- › Automatic climate control

Design

- › Clean, smooth hood design and automotive-style cab
- › Up to 16 work lights on hood and cab

Engine

- › Engine located within a rugged chassis for best performance and enhanced traction
- › Coolers open out to allow easier and faster cleaning

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

- › Robotized range shifting
- › Smart APS
- › Stop&Action with De-clutch function integrated in brake pedal

Transmission

VT-Drive four-stage continuous variable transmission: (OPT)

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

- › Creeper providing up to 54 forward and 27 reverse speeds
- › ECO mode for transport operations and Oil-Cut-Off feature for improved fuel economy

Axles

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

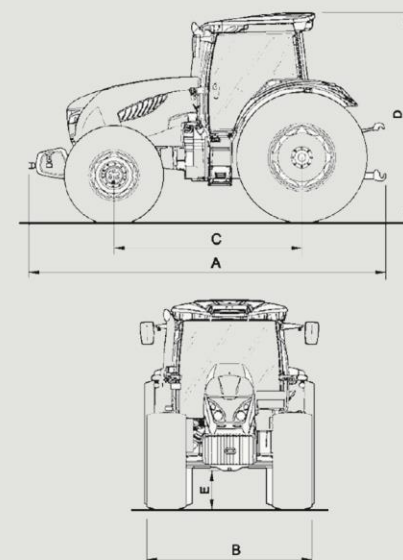
Hydraulic system

- › 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



		X7.650 P6 DRIVE	X7.660 P6 DRIVE	X7.670 P6 DRIVE	X7.680 P6 DRIVE
ENGINE					
STAGE 3 EMISSION SPECIFICATION REQUIREMENTS		BETAPOWER	BETAPOWER	BETAPOWER	BETAPOWER
ELECTRONIC HIGH PRESSURE COMMON RAIL			●	●	●
TUBRO/AIR-TO-AIR INTERCOOLER		●	●	●	●
RATED ENGINE POWER AT 1900 RPM (ISO TR 14396 ECE R120)	HP/KW	116	121	133	140
RATED ENGINE SPEED	RPM	2200	2200	2200	2200
MAX TORQUE	NM	632(676)	694(738)	758(800)	800(860)
ENGINE RPM @ MAX TORQUE	RPM	1400(1400)	1400(1400)	1400(1400)	1400(1400)
ENGINE RPM @ MAX POWER (WITH POWER PLUS)	RPM	1900(1900)	1900(1900)	1900(1900)	1900(1900)
BORE/STROKE	MM	104/132	104/132	104/132	104/132
DISPLACEMENT (CM ³)/NO. OF CYLINDERS/NO. OF VALVES		6728/6/24	6728/6/24	6728/6/24	6728/6/24
FUEL TANK CAPACITY	L	320	320	320	320
CLUTCH					
MULTI-DISC WET CLUTCH		●	●	●	●
TRANSMISSION					
P6-DRIVE + POWER SHUTTLE 30FWD+15REV (6 POWERSHIFT SPEEDS IN 5 RANGES)		●	●	●	●
P6-DRIVE + CREEPER + POWERSHUTTLE 54FWD+27REV		○	○	○	○
ROBOTIZED RANGE SHIFTING		●	●	●	●
ECO FORTY (40KM/H)AT REDUCED ENGINE RPM		●	●	●	●
REVERSE POWER SHUTTLE		●	●	●	●
ELECTROHYDRAULIC DIFFERENTIAL LOCK ON REAR AXLE		●	●	●	●
FLANGED-TYPE AXLE		●	●	●	●
BAR-TYPE AXLE		○	○	○	○
POWER TAKE-OFF					
WET MULTI-DISC PTO CLUTCH		●	●	●	●
MODULATED ELECTROHYDRAULIC ENGAGEMENT		●	●	●	●
FOUR SPEEDS:1000/1000E/540/540E	RPM	●	●	●	●
1"3/8PTO SHAFT WITH 6 AND 21 SPLINES		●	●	●	●
FRONT 4WD AXLE					
RIGID TYPE		●	●	●	●
WITH ELECTRONICALLY-CONTROLLED HYDRAULIC SUSPENSIONS		○	○	○	○
ELECTROHYDRAULIC 4WD ENGAGEMENT		●	●	●	●
MAX. STEERING ANGLE		55°	55°	55°	55°
ELECTROHYDRAULIC DIFFERENTIAL LOCK		●	●	●	●

		X7.650 P6 DRIVE	X7.660 P6 DRIVE	X7.670 P6 DRIVE	X7.680 P6 DRIVE
BRAKING SYSTEM					
WET MULTI-DISK REAR BRAKES		●	●	●	●
AUTOMATIC 4WD ENGAGEMENT ON BRAKING		●	●	●	●
HYDRAULIC TRAILER BRAKING		○	○	○	○
PNEUMATIC TRAILER BRAKING		○	○	○	○
HYDRAULIC SYSTEM					
CLOSED-CENTRE CIRCUIT(PREMIUM VERSION /EFFICIENT VERSION)		●	●	●	●
HYDRAULIC PUMP FLOW (PREMIUM VERSION)	L/MIN	123	160	160	160
STEERING PUMP FLOW (PREMIUM VERSION)	L/MIN	44	44	44	44
MACHANICALLY-OPERATED REMOTE VALVES (EFFICIENT VERSION)		2/4○6	2/4○6	2/4○6	2/4○6
ELECTROHYDRAULICALLY-OPERATED REMOTE VALVES (PREMIUM VERSION)	STD/OPT	3/5○7	3/5○7	3/5○7	3/5○7
CAN BUS LIFT CONTROL HITCH					
ELECTRONICALLY-CONTROLLED HITCH		●	●	●	●
MAX LIFTING CAPACITY(PREMIUM VERSION /EFFICIENT VERSION)	KG	6300	9300	9300	9300
THREE-POINT HITCH	CAT	3N-3	3N-3	3N-3	3N-3
CAB AND DRIVING POSITION					
PREMIERE CAB WITH FOUR-POST DESIGN AND FLAT DECK PLATFORM		●	●	●	●
ELECTRONICALLY-CONTROLLED HYDRAULIC CAB SUSPENSION		○	○	○	○
AIR-CONDITIONING (EFFICIENT VERSION)		●	●	●	●
AUTOMATIC CLIMATE CONTROL (PREMIUM VERSION)		●	●	●	●
DIMENSIONS & WEIGHTS					
FRONT TYRES		420/85R28	540/65R28	540/65R30	540/65R30
REAR TYRES		520/85R38	650/65R38	650/65R42	650/65R42
A-MAX LENGTH(WITH BALLAST WEIGHTS)	MM	5260	5260	5260	5260
B-MIN WIDTH	MM	2430	2430	2430	2430
C-WHEELBASE	MM	2820	2820	2820	2820
D-HEIGHT OVER CAB	MM	2920	2920	3055	3055
E-GROUND CLEARANCE	MM	485	485	550	550
GROSS VEHICLE WEIGHT	KG	10800	11500	13000	13000





MCCORMICK SPARE PARTS AND SERVICE, TO GIVE YOU THE BEST ALWAYS

McCormick is worldwide recognized as a reliable supplier of high-quality spare parts and after-sales services. Developed by the same engineers who design and manufacture the McCormick tractors, genuine McCormick parts are designed and manufactured to the highest quality standards to ensure tractors reliable performance and maximum safety. The pluses of McCormick's after-sales service include following:

- Each part comes with a 12-month warranty and bears a non-falsifiable hologram which certifies its build quality and genuineness.
 - Original McCormick parts are reliable and convenient, as they enhance the working quality and efficiency of the X7 tractors.
- After-sales service is handled by our dealers through a team of highly-skilled, solution-oriented technicians who avail themselves of the latest diagnostic techniques. Choosing McCormick means choosing excellence.



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