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NEW

X4



McCORMICK

# New McCormick X4: compact, powerful, versatile.



The X4 Series replaces both the CX-L and CL models revolutionizing McCormick's low- and medium-power range with a new family of lightweight and powerful tractors that bring more productivity and versatility in the field.

Available in both platform and cab versions, the X4 Series tractors are ideal for seed bed preparation activities, such as ploughing, tillage and harrowing, which require stability and strength, as well as for work between tight orchard rows, where agility is paramount. Built to provide outstanding visibility and easy manoeuvrability, these tractors are equally perfect for forage harvesting activities and front loader operations, and ensure comfort and safety during high-speed road transport.

The range comprises six models, all powered by new Deutz four-cylinder turbo engines with intercooler and common rail injection system. The X4.55, X4.60 and X4.70 models feature 3.6L Tier 4 Interim engines with power outputs of 90hp, 99hp and 107hp, while the X4.30, X4.40 and X4.50 models are equipped with advanced 2.9L engines meeting the Tier 4 Final emission regulations that deliver 69,5hp, 75,2hp and 88,4hp.

The X4 Series tractors feature an all-new transmission developed by Argo Tractors, rear planetary final drives and a front four-wheel drive axle with optional integral braking system. Two different wheelbases are available: 2230 mm for the three most powerful models and 2100 mm for the others.

Featuring a compact design and modern look, the X4 Series wears the company's distinctive family styling introduced across the new McCormick tractor ranges starting from 2012. The X4 Series models are offered in a variety of configurations - from entry-level to fully optioned-out - to meet customer's specific needs.

Options available include a new four-post cab with an ultra-slim roof panel equipped with a highly efficient air-conditioning system and loaded with a host of comfort features and an all-new 12+12 speed transmission. The new transmission developed by Argo Tractors provides a top speed of 40 km/h in economy mode and offers a variety of options such as creeper, power shuttle, declutch button, Hi-Lo splitter (Power Four) and a hydraulically engaged two-speed PTO, allowing the user to choose the best set-up for the work being done.

Additional equipment includes a mechanically- or electronically-controlled rear hitch offering a lift capacity of 3900 kg for the higher horsepower models and of 3400 kg for the others. The hydraulic system is available on request with a high-flow pump delivering up to 57 l/min. A front hitch capable of lifting 1750 kg is also available as an option.



## KEY FEATURES & BENEFITS



- › ENGINES MEETING TIER 4 INTERIM EMISSION REGULATIONS
- › EXHAUST GAS RECIRCULATION SYSTEM (EGR) WITH DIESEL OXIDATION CATALYST (DOC)
- › TURBOCHARGED, INTERCOOLED 4-CYLINDER ENGINES WITH ELECTRONIC COMMON RAIL INJECTION SYSTEM
- › SIMPLE MAINTENANCE OF ENGINE AND COOLERS
- › ELECTRO-HYDRAULIC POWER FOUR TRANSMISSION (HI-LO POWERSHIFT)
- › CHOICE OF 32 FORWARD AND 32 REVERSE SPEEDS WITH CREEPER
- › ECO FORTY GIVING 40KM/H AT 1900 RPM, USEFUL FOR TRANSPORT OPERATION
- › CAB WITH ALL-ROUND VISIBILITY AND ROOF HATCH FOR LOADER OPERATION
- › ELECTRONIC REAR HITCH WITH UP TO 3900 KG LIFT CAPACITY



## FRONT HITCH AND PTO (OPTIONAL)

Offering a maximum lift capacity of 1750 kg, the front hitch is Category II and features raise/lower and float controls. The 1000-rpm PTO is electro-hydraulically engaged via a pushbutton. The front hitch and PTO have been specially designed to add greater versatility to the tractor for applications using front-mounted implements and rear and front implement combinations.

## ENGINE

The six models of the X4 Series are powered by the new Deutz C4DT four-cylinder turbo engines with two-valve technology, intercooler and electronic common rail injection system. The highly-efficient Deutz common rail injection system provides more power, higher torque backup and better fuel economy, resulting in great flexibility of use. An innovative exhaust gas recirculation system (EGR) with diesel oxidation catalyst (DOC) allows these engines to meet Tier 4 Interim emission regulations without the use of a diesel particulate filter (DPF), thus eliminating the need for a regeneration process. The engines that power the X4 Series come in two displacements and six power ratings. The three more powerful models feature 3.6 L engines with maximum power outputs of 90 hp, 99 hp and 107 hp, while the three lower power models are equipped with 2.9 L engines that deliver up to 69,5 , 75,2 and 88,4. Fully redesigned to reflect the new McCormick family styling, the hood opens wide to provide easy access to the engine compartment for routine service and maintenance and to allow easy cleaning of coolers in dusty conditions (fig. A).



B

## FRONT AXLE

The front axle with electro-hydraulic four-wheel drive engagement offers a 55-degree steering angle providing high ground clearance and excellent manoeuvrability in confined spaces (fig. B). In addition, the combined front and rear wet disc brakes provide efficient and secure all-wheel braking. Featuring a full differential lock with electrohydraulic engagement, the front axle provides maximum traction even in the toughest ground conditions. The models with 2.9L engines come standard with limited slip differential.

## HYDRAULIC SYSTEM

Featuring two independent pumps, one feeding the steering system and the other operating all hydraulic functions, the X4 Series is available with either a standard hydraulic system that delivers a flow rate of 32+44 l/min or a high-capacity hydraulic system with a flow rate of 32+57 l/m. The models with 2.9L engine are only available with a double pump providing 28+49 l/min. The system comes standard with two remote valves which can be optionally increased to five, of which three are rear- and two are mid-mounted. Mid-mount remote valves are controlled by a joystick (A) to operate either a front hitch or a front loader. Available as an option is a flow divider which can be operated via the green button (V) integrated into the lever of the remote valve that controls the hydraulic lift rod or the top link. The high-quality quick-release couplings, mounted on both the front and rear of the tractor, are easily accessible for convenient and fast operation (fig. E-F).

## TRANSMISSION

The X4 Series tractors feature a versatile modular transmission (Speed Four) with four synchronized gears in three ranges offering 12 speeds forward and 12 reverse. The basic gearbox is offered in a 30 km/h configuration on the 2WD models and with the addition of a creep gearbox option provides up to 16 +16 speeds. On the 4WD version, the basic gearbox can be combined with the Power Four transmission, a hydraulic Hi-Lo gear splitter that allows the operator to either increase or reduce the selected speed by up to 18%, thereby obtaining 24 speeds forward and reverse at 40 Km/h. Available with this package is an Eco Forty mode that allows 40 km/h to be reached at 1900 rpm, resulting in increased fuel economy and lower noise during road transport. A creep speed unit with 32 forward and 32 reverse gears and speeds as low as 300 m/h is available as an option. The transmission incorporates as standard a synchro shuttle or, optionally, an electro-hydraulic power shuttle with control lever adjacent to the steering wheel. A shuttle modulation control (potentiometer) allows the power shuttle response to be adjusted to suit implement used and soil conditions. The Power Four transmission also features a declutch control (orange button integrated into the gearshift lever) which, used in conjunction with the reverse power shuttle, allows the operator to easily shift through all gears and change from forward to reverse without using the clutch pedal (fig. C-D).



C



D



E

## INSTRUMENT PANEL AND STEERING WHEEL

Stylish and well lighted, the instrument panel tilts with the steering wheel, allowing the driver to constantly monitor the tractor operation. The angle adjustment is done via a foot pedal conveniently located under the dashboard. The shuttle lever is also integrated into the dashboard within easy reach (fig. D).



F

**G**

### REAR HITCH

The X4 Series can be specified with either mechanical or electronic rear hitch controls. The electronically-controlled rear hitch is equipped with lower link draft sensing for accurate implement control and includes all main settings (position, draft, mixed and float controls, lowering speed control and draft sensitivity adjustment). Conveniently located on the stylish right-hand console (fig. G), the main controls allow precise and safe implement operation. This makes for better traction, while maintaining speed and productivity. The three-point linkage is Category II and features two assistor rams providing a maximum lift capacity of 3900 Kg on the high-power models and of 3400 kg on the others (fig. H).

**H**

### POWER TAKE-OFF

The X4 Series features a versatile PTO with power-assisted mechanical engagement for the synchro shuttle version and electrohydraulic control for the power shuttle version. On both versions, the PTO clutch is operated via a mushroom button (P) (fig. G) which enables smooth and modulated engagement of the PTO, ensuring a soft start-up of the implement for maximum comfort of operation. The PTO provides two speeds – 540/540E rpm or, optionally, 540/1000 rpm. A ground speed PTO is also available on request (fig. H). External PTO and hitch controls are located on the rear fenders, making it easier to attach implements from the ground (fig. I).

**I****L**

### CAB

Designed to offer best-in-class operator comfort, the cab of the X4 Series tractors has an automotive-style interior with ergonomically arranged controls providing a safe and stress-free working environment for long hours in the field. Featuring a four-post design with a flat-deck platform and rear hinged doors, the 'Deluxe Slim' cab offers easy access to the driver's seat and unmatched all-round visibility. In addition, the slim profile of the roof panel reduces the tractor overall height. The driving position with multiple adjustments can be optionally equipped with an air suspension seat. The telescopic tilt-adjustable steering wheel tilts with the instrument panel. The main controls are conveniently integrated into the right-hand console for maximum comfort and ease of operation. The filters of the air-conditioning are located in the rear posts to allow easy cleaning. The opening front and rear windscreens ensure excellent natural ventilation, while a fully opening transparent roof hatch provides extra visibility for loader operations (fig. L). The version with iso-mounted platform is equally comfortable and ergonomically designed as the cab version. Both the cab and platform versions can be optionally equipped with narrow fenders and slim-profile tires to reduce tractor width to 1750 mm for better manoeuvrability between tight vineyard and orchard rows.

		X4.30	X4.40	X4.50	X4.55	X4.60	X4.70
<b>ENGINE</b>							
TYPE		DEUTZ C4DT45 TIER4 FINAL	DEUTZ C4DT50 TIER4 FINAL	DEUTZ C4DT55 TIER4 FINAL	DEUTZ C4DT62 TIER4I	DEUTZ C4DT69 TIER4I	DEUTZ C4DT74 TIER4I
MAX POWER ISO	HP/KW	69,5 / 51	75,2 / 55	88,4 / 65	90 / 66	99 / 73	107 / 78.5
RATED ENGINE POWER (ISO RATING)	HP/KW	68 / 50	75,2 / 55	78,9 / 58	85 / 62.5	94.5 / 69.5	101 / 74.4
RATED SPEED	RPM	2200	2200	2200	2200	2200	2200
MAX TORQUE	NM	244	360	398	358	397	420
MAX TORQUE SPEED	RPM	1600	1600	1600	1600	1600	1600
BORE/STROKE	MM	92X110	92X110	92X110	98X120	98X120	98X120
DISPLACEMENT / NO. OF CYLINDERS	CM <sup>3</sup>	2900 / 4 TA	2900 / 4 TA	2900 / 4 TA	3600 / 4 TA	3600 / 4 TA	3600 / 4 TA
FUEL TANK CAPACITY	L	90	90	90	120	120	120
<b>CLUTCH</b>							
SINGLE-PLATE DRY CLUTCH	IN. (MM)	11 / (280)	11 / (280)	11 / (280)	12 / (304.8)	12 / (304.8)	12 / (304.8)
MECHANICALLY OPERATED		●	●	●	●	●	●
MULTI-DISC WET CLUTCH		○	○	○	○	○	○
DE-CLUTCH CONTROL: CLUTCH WITH BUTTON		○	○	○	○	○	○
<b>TRANSMISSION</b>							
SYNCHRO SHUTTLE + SPEED FOUR + CREEPER: 16FWD+16REV (30KM/H) (VERS. 2WD)		●	●	●	●	●	●
SYNCHRO SHUTTLE + SPEED FOUR: 12FWD+12REV (40 KM/H)		●	●	●	●	●	●
SYNCHRO SHUTTLE + SPEED FOUR + CREEPER: 16FWD+16REV (40 KM/H)		○	○	○	○	○	○
SYNCHRO SHUTTLE + POWER FOUR + SPEED FOUR: 24FWD+24REV		—	—	—	○	○	○
SYNCHRO SHUTTLE + POWER FOUR + SPEED FOUR + CREEPER: 32FWD+32REV		—	—	—	○	○	○
POWER SHUTTLE + SPEED FOUR: 12FWD+12REV (40 KM/H)		○	○	○	○	○	○
POWER SHUTTLE + POWER FOUR + SPEED FOUR: 24FWD+24REV		—	—	—	○	○	○
POWER SHUTTLE + POWER FOUR + SPEED FOUR + CREEPER: 32FWD+32REV		—	—	—	○	○	○
ECO FORTY (40 KM/H) AT REDUCED ENGINE SPEED		—	—	—	○	○	○
PARK LOCK		○	○	○	○	○	○
SHUTTLE MODULATION CONTROL: POTENTIOMETER FOR ADJUSTMENT OF POWER SHUTTLE RESPONSE		○	○	○	○	○	○
ELECTRO-HYDRAULIC REAR DIFF-LOCK		—	—	—	●	●	●
MECHANICAL REAR DIFF-LOCK		●	●	●	—	—	—
<b>POWER TAKE-OFF</b>							
POWER-ASSISTED MECHANICAL ENGAGEMENT		●	●	●	●	●	●
ELECTROHYDRAULIC CONTROL (ONLY WITH POWER SHUTTLE)		○	○	○	○	○	○
2 SPEEDS (540/1000 RPM)		○	○	○	○	○	○
2 SPEEDS (540/540E RPM)		●	●	●	●	●	●
GROUND SPEED PTO		○	○	○	○	○	○
<b>FRONT 4WD AXLE</b>							
ELECTROHYDRAULIC 4WD ENGAGEMENT		●	●	●	●	●	●
MAX. STEERING ANGLE		55°	55°	55°	55°	55°	55°
LIMITED SLIP DIFFERENTIAL LOCK		●	●	●	—	—	—
TWIN-LOCK ELECTRO-HYDRAULIC DIFF-LOCK		—	—	—	○	○	○
<b>BRAKES</b>							
HYDROSTATIC CONTROL WITH HYDRAULIC PISTON RING REAR BRAKES		●	●	●	●	●	●
AUTOMATIC 4WD ENGAGEMENT ON BRAKING		●	●	●	●	●	●
OIL-IMMERSED GRAPHITE-COATED FRONT BRAKES		—	—	—	○	○	○

Key: ● standard ○ option — not available

		X4.30	X4.40	X4.50	X4.55	X4.60	X4.70
<b>HYDRAULIC POWER LIFT</b>							
MECHANICALLY OPERATED		●	●	●	●	●	●
ELECTRONICALLY-OPERATED		—	—	—	○	○	○
STANDARD LIFT CAPACITY	KG	2700	2700	2700	2700	2700	2700
LIFT CAPACITY WITH ASSIST CYLINDERS	KG	3400 (1 CYL.)	3400 (1 CYL.)	3400 (1 CYL.)	3900 (2 CYL.)	3900 (2 CYL.)	3900 (2 CYL.)
FRONT HITCH AND PTO (LIFT CAPACITY KG)		—	—	—	1750 ○	1750 ○	1750 ○
<b>HYDRAULIC SYSTEM</b>							
HYDRAULIC PUMP FLOW (HITCH+STEERING)		49 + 28	49 + 28	49 + 28	44 + 32	44 + 32	44 + 32
HIGH-CAPACITY PUMP FLOW (HITCH+STEERING)		—	—	—	57+32 ○	57+32 ○	57+32 ○
HYDRAULIC ADJUSTMENT OF RIGHT LIFT ROD / TOP LINK		—	—	—	○	○	○
NO. OF REMOTE VALVES STD / OPT		2 / 3	2 / 3	2 / 3	2 / 3	2 / 3	2 / 3
REMOTE VALVE WITH TWO-WAY SELECTOR SWITCH		○	○	○	○	○	○
MID-MOUNT REMOTE VALVES WITH JOYSTICK CONTROLLER		2	2	2	2	2	2
<b>CAB AND DRIVING SEAT</b>							
DELUXE SLIM CAB		●	●	●	●	●	●
AIR-CONDITIONING		○	○	○	○	○	○
<b>DIMENSIONS AND WEIGHTS</b>							
A - WHEELBASE	MM	2100	2100	2100	2230	2230	2230
B - MIN. WIDTH	MM	1750	1750	1750	1750	1750	1750
C - MAX. LENGTH (WITH BALLAST WEIGHTS)	MM	4182	4182	4182	4321	4321	4321
D - HEIGHT OVER CAB	MM	2447-2497	2447-2497	2447-2497	2507-2582	2507-2582	2507-2582
E - GROUND CLEARANCE	MM	350-400	350-400	350-400	375-450	375-450	375-450
WEIGHT 4WD (WITHOUT BALLAST) PLAT / CAB	KG	2800 / 3000	2800 / 3000	2800 / 3000	3300 / 3500	3300 / 3500	3300 / 3500

Key: ● standard ○ option — not available

