

# X50

85 to 113 Engine HP



  
McCORMICK™



A

## ENGINES

The X50 tractors are powered by a line of Perkins 3.4L 4-cylinder, liquid cooled, diesel engines. A wastegate turbocharger and intercooler force cool, dense air into the cylinders for maximum power output, and high pressure common rail direct fuel injection ensures a complete burn for best performance.

Electronic engine management and the *Power Plus* system allows the engine to deliver additional power and torque on demand during certain applications, such as PTO or transport work.

To help meet the EPA's Tier 4i emissions requirements, these engines incorporate two reliable and automated technologies: exhaust gas recirculation (EGR) and a diesel particulate filter (DPF).

Fully reshaped to reflect the new McCormick family style, the single piece tilting hood opens widely to provide easy access to the entire engine area for routine service and maintenance (fig. A).

## FRONT AXLE

The 4WD front axle with electro-hydraulic engagement and 55-degree steering angle ensures high ground clearance and optimum maneuverability (fig. B). Wet disc brakes integrated into the front axle, operate together with the rear brakes to provide excellent stopping power.

A fully locking front differential engages with the rear differential lock via push button for maximum traction and pulling power.

## TRANSMISSION

All tractor models offer a basic 12 speed transmission with 4 synchronized gears and 3 ranges that manually shift using levers to the right of the seat. Additional options (depending on configuration) include a mechanically operated hi/lo gear set that provides 24x12 speeds, or a 3-speed power shift that offers 36x12 speeds. The power shift option operates using simple push buttons in the main gear shift lever, and includes a de-clutch button for greater control (fig. D).

The X50 Series offers a choice of simple mechanical synchro shuttle or a convenient hydraulic power shuttle. Each provides easy direction change and are ideal for loader work.

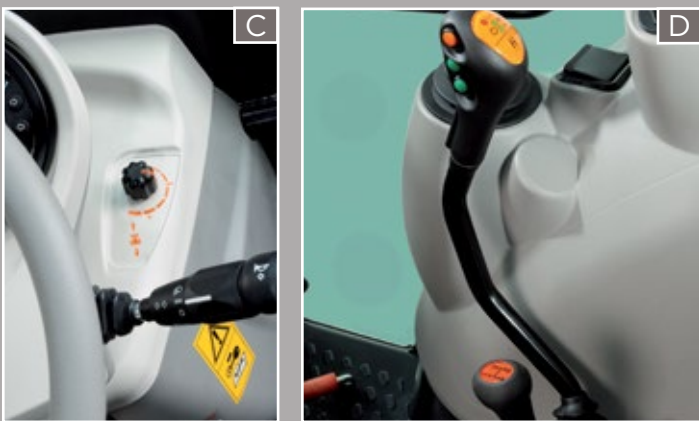
All models with a power shuttle transmission are equipped with Shuttle Modulation Control (fig. C). A simple rotary knob on the front dash, to the right of the steering wheel allows the operator to adjust how aggressively the transmission shifts gears when changing direction.

## INSTRUMENT PANEL AND STEERING WHEEL

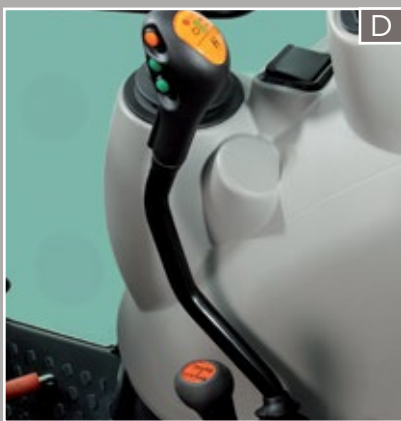
Stylish and well lit, the instrument panel tilts with the steering wheel, to allow the driver to constantly monitor the tractor operation (fig. E).



B



C



D



E

## ELECTRONIC 3-POINT HITCH

The rear 3-point hitch features electronic control for precise operation of mounted implements. Hitch controls are intuitively placed in the right hand console for easy reach (fig. F).

The Category 2 rear linkage offers both position and draft control to meet the needs of the job at hand, and has a lift capacity of 10,450 lbs at the ball ends.

## PTO (POWER TAKE OFF)

All models offer both 540 and 1000 RPM PTO speeds as standard equipment to power a wide variety of implements. A ground speed PTO option is available from the factory for certain, specific applications (fig. G).

The PTO starts and stops via a simple push button (P) (fig. F) in the right hand console. The durable wet disc clutch features a modulation capability that ensures a smooth start-up for implements of all sizes.

## FRONT HITCH & PTO (OPTIONAL)

The Category 2 front 3-point hitch features raise/lower and float controls, and offers a lift capacity of 3,960 lbs. A 1000 RPM front PTO engages electro-hydraulically using a simple push button. Both the front linkage and front PTO are designed specifically to power front implements, which increases the versatility of the X50 Series.

## HYDRAULICS

All models have an open center hydraulic system that provides 22 gpm of total hydraulic flow.

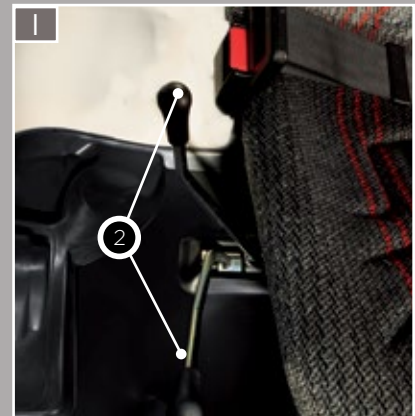
All X50 models feature two rear remote valves as standard equipment, and an additional two valves are optional. Control levers are conveniently located to the right of the operator and placed within easy reach. The first two valves operate using separate push/pull levers (2) (fig. I). The second two valves (if equipped), operate via a single joystick control lever (1) (fig. H).

## CAB

The deluxe cab has a refined interior giving the operator a roomier and more comfortable working environment. A fully adjustable, air-suspended seat offers exceptional comfort for long working days. The wide rubber-coated floor deck reduces noise and vibration, and the 4-post cab provides excellent visibility in all directions.

The cab has a sleek, modern design that offers automotive-grade fit and finish. Tractor controls are arranged for maximum comfort and maximum productivity (fig. J).

The cab is completely isolated from the outside environment through tinted, insulated glass and a robust climate control system. The HVAC system, with very capable air filters, keeps the inside air clean and healthy. A window in the front roof line provides additional visibility for loader work.



	X50.20	X50.30	X50.40	X50.50
<b>PERFORMANCE AND ENGINE *</b>				
Max. Engine HP (synchro shuttle / power shuttle)	85 / 88.5	95 / 95	102 / 105	113 / 113
Max. PTO HP	71.5	81.5	88	97.5
Max. Engine HP with Power Plus (power shuttle)	95	102	113	—
Max. PTO HP with Power Plus (power shuttle)	80	87	96	—
Max. Torque lb. ft. (synchro shuttle / power shuttle)	260 / 270	290 / 290	310 / 318	330 / 330
Max. Torque with Power Plus lb. ft. (power shuttle)	290	310	330	—
Engine Type	Perkins® Tier 4i direct injection liquid cooled diesel			
Cylinders / Displacement / Aspiration	4-cylinders / 3.4 liters / turbocharged and intercooled			
Fuel Tank Capacity	27.2 gallons, under platform for ground-level fueling			
<b>TRANSMISSION AND DRIVETRAIN</b>				
Transmission (all 2wd models)	12x12; synchro shuttle or power shuttle			NA
Transmission (4wd models with synchro shuttle)	24x12; 4 gears and 3 ranges with synchronized overdrive gear			
Transmission (4wd models with power shuttle)	36x12; 4 gears and 3 ranges with 3-speed push-button power shift			
Clutch	Synchroshuttle = dry single disc; power shuttle = wet multi disc			
Creeper	Optional in all transmissions			
Differential Lock	Fully locking front and rear axles; electro-hydraulic engagement			
Brakes	Internal hydraulic wet disc brakes in both front and rear axles			
2wd Front Axle	58 degree steering angle			NA
4wd Front Axle	Electro-hydraulic engagement, 55 degree steering angle			
Steering Type/ Flow	Hydrostatic power steering / 8.2 gpm			
<b>POWER TAKE-OFF</b>				
PTO Type	Independent, electro-hydraulic engagement			
PTO Speeds	540 and 1000 RPM standard, ground speed PTO optional			
<b>HYDRAULICS AND 3-POINT HITCH</b>				
Hydraulic System Type / Flow at Remotes	Open center / 13.8 gpm			
Rear Remote Valves	2 standard; 4 optional			
3-point Hitch Type	Category 2 with position and draft control			
Mechanical 3-point Hitch Control	All mechanical shuttle models and power shuttle with ROPS models			
Electronic 3-point Hitch Control	All cab models with power shuttle			
3-point Hitch Lift Capacity	10,450 lbs at ball ends			
<b>OPERATOR'S AREA</b>				
Open Station Configuration	Folding ROPS, spring-suspended vinyl seat, tilt steering			
Cab Configuration	4-post structure, 2 doors, HVAC, air-suspended cloth seat, tilt steering			
Cab Features	Front roofline window, external mirrors, front and rear work lights			
<b>DIMENSIONS</b>				
Overall Length with Ballast (in)	163.8			
Wheelbase 2wd / 4wd (in)	93 / 92			- / 92
Height OverROPS / Cab (in)	101 / 101			101 / 101
ROPS Base Weight 2wd/ 4wd (lbs)	7,380 / 7,930			- / 7,930
Cab Base Weight 2wd/ 4wd (lbs)	7,820 / 8,370			- / 8,370

\* Manufacturer's calculated estimates. Power Plus values met only when certain operating conditions are met.