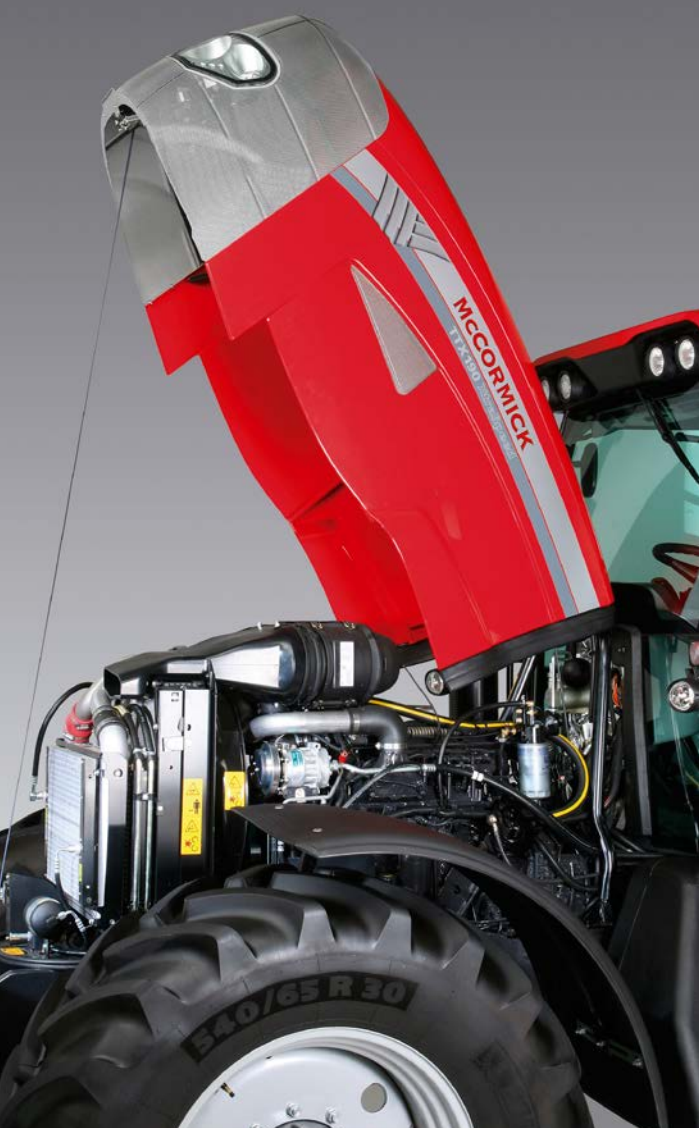


TTX230

225 ENGINE HP




McCORMICK™



ENGINE

The rugged and reliable BETAPOWER 6-cylinder diesel engine in the TTX230 model sits in a heavy cast steel front frame to create a strong, rigid chassis. Displacing 6.7 liters, the Tier 3 powerplant incorporates 4 valves per cylinder with a turbocharger and intercooler. High pressure common rail direct fuel injection ensures excellent fuel /air mixture for a clean, more complete burn to generate high power and torque.

Electronic engine management precisely controls engine operation for quick response, improved performance and low fuel consumption. Combined with the engine electronics, the *Power Management* system allows for an automatic increase in both the power and torque available at the PTO.

A single piece raising hood provides complete access to the engine for service and maintenance. A two-stage air cleaner is easy to reach for inspection or replacement, and engine oil can be checked without opening the hood.

4WD FRONT AXLE

The TTX230 includes a 4wd front axle as standard equipment to increase traction and pulling power in the field. Electronically engaged, the power front axle has a 55 degree steering angle for maneuverability, and can oscillate to keep both tires on the ground pulling in uneven terrain.

The 4wd front axle features a fully locking front differential that engages hydraulically for true 4-wheel pulling performance. When both brake pedals are applied, the 4wd clutch automatically engages to provide 4-wheel braking for excellent stopping power.



'XTRASPEED' TRANSMISSION

The durable 'XTRASPEED' transmission provides 32 speeds over 4 ranges with 8 power shift gears in each range. A mechanical hand lever in the right side console shifts between the 4 ranges using the clutch pedal. A simple thumb "toggle" switch lets the operator freely shift through the 8 gears without using the foot clutch. The power shift gears can shift-under-load at full power to quickly react to changing field conditions.

The transmission is also equipped with a hydraulic power shuttle providing 32 forward and 24 reverse speeds. A convenient left hand lever near the steering wheel changes the travel direction without having to use the foot clutch pedal, and it also includes a "park lock" position to keep the tractor stationary when parked.

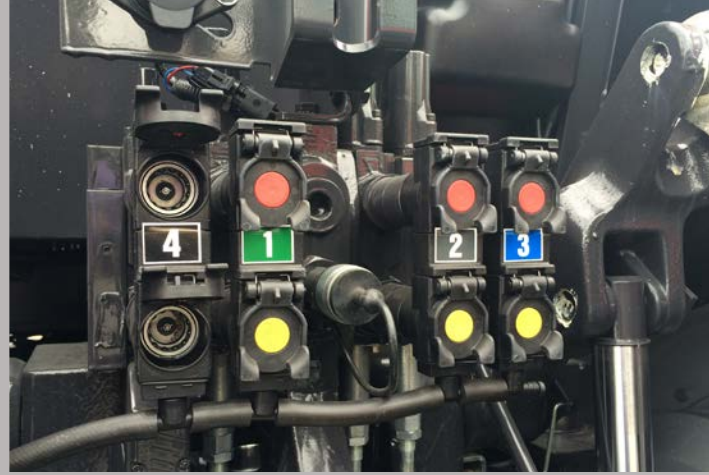
A de-clutch button on the front side of the main transmission lever disengages the main drive clutch when pressed, making range shifts more convenient.



HYDRAULICS

The closed-center PFC hydraulic system with variable displacement pump provides a flow rate of up to 43 gpm (162 lpm) and ensures optimum operation of the 4 rear remote spool valves. Valves 1, 2 and 3 are controlled using mechanical hand levers in the right side console. The 4th remote valve operates using an electronic rocker switch for convenience.

The remote valves stack side-by-side at the rear of the tractor for easy reach, and standard ISO 1/2" quick couplers with spring-loaded covers make implement connection easy. A zero pressure return port is standard equipment to accommodate select implements.



REAR 3-POINT HITCH

The TTX230 boasts an ASABE Category 3 rear 3-point hitch with a massive lift capacity of over 24,000 lbs (10,900 kg) at the ball ends. Electronic hitch operation offers both position and draft control capabilities to ensure precise implement control.

When transporting a raised implement, the operator can activate the ride control system whereby the 3-point hitch dampens any road bounce for a safe, smooth ride.



POWER TAKE OFF (PTO)

The wet disc clutch, hydraulically operated via push button, enables smooth and progressive engagement of the rear PTO. The *Power Management* system, which utilizes the engine electronics, enables the power and torque available at the PTO to be automatically increased under load by approximately 10 horsepower, resulting in enhanced performance and productivity.



CAB

The Deluxe cab features a four-post design with large, rear-hinged doors which provide excellent visibility in all directions and allow the operator to enter and exit with ease. The quality and design of the ergonomically-arranged controls and the excellent sound-proofing maximize the operator's comfort. A window in the front roof line improves visibility and makes front loader operations easier. Equipped with an adjustable air-ride seat, folding instructor's seat, adjustable steering wheel and an efficient HVAC system, the cab of the TTX230 tractor offers the ideal environment for long hours in the field. The powerful halogen lights provide awesome visibility during night work.



TTX230

ENGINE		
TIER 3, 6-CYLINDER, 6.7 LITER, 24 VALVE DIESEL ELECTRONIC HIGH PRESSURE COMMON RAIL DIRECT INJECTION		
MAX. ENGINE POWER (ISO)	HP (KW)	BETAPOWER STANDARD 213 (157)
MAX. ENGINE POWER WITH POWER MANAGEMENT FOR PTO (ISO)	HP (KW)	225 (165)
MAX. TORQUE [WITH POWER MANAGEMENT]	LB FT (NM)	627 (850) [701 (950)]
TORQUE RISE WITH POWER MANAGEMENT		42%
DISPLACEMENT (LITER) / CYLINDERS / VALVES		6.7 / 6 / 24
FUEL TANK CAPACITY	GAL (LITERS)	92 (350)
CLUTCH		
PRESSURIZED OIL LUBRICATED MULTI DISK WET CLUTCH		STANDARD
TRANSMISSION		
XTRASPEED WITH 32FWD+24REV SPEEDS (4 RANGES+8 POWERSHIFT SPEEDS)		STANDARD
HYDRAULIC POWER SHUTTLE		STANDARD
ELECTRO-HYDRAULIC PARK LOCK		STANDARD
REAR ELECTRO-HYDRAULIC DIFFERENTIAL LOCK		STANDARD
POWER TAKE-OFF		
NET PTO POWER (ISO RATING)	HP/KW	198/ 148
WET MULTI-DISC CLUTCH		STANDARD
ELECTRO-HYDRAULIC PUSH-BUTTON ENGAGEMENT		STANDARD
540 AND 1000 RPM PTO SPEEDS		STANDARD
4WD FRONT AXLE		
HEAVY DUTY SOLID CAST STEEL FRONT AXLE WITH ELECTRONIC ENGAGEMENT		STANDARD
MAX. STEERING ANGLE / TURNING RADIUS	IN (MM)	55° / 213 (5,400)
LIMITED SLIP FRONT DIFFERENTIAL		STANDARD
BRAKES		
OIL-IMMERSED WET MULTI DISK REAR BRAKES		STANDARD
AUTOMATIC 4WD ENGAGEMENT WITH BRAKES FOR 4-WHEEL BRAKING		STANDARD
POWER BOOSTED HYDRAULIC BRAKES		STANDARD
HYDRAULICS		
CLOSED CENTER LOAD SENSING SYSTEM WITH VARIABLE-DISPLACEMENT PISTON PUMP		STANDARD
TOTAL HYDRAULIC FLOW	GPM (LPM)	43 (162)
REAR REMOTE VALVES	STD	1 ELECTRIC + 3 MECHANICAL
3-POINT LINKAGE		
ASABE CATEGORY 3, ELECTRONICALLY CONTROLLED		STANDARD
FUNCTIONS: POSITION CONTROL, INTERMIX, FLOAT POSITION, RIDE CONTROL		STANDARD
MAX. LIFT CAPACITY AT BALL ENDS	LBS (KG)	24,141 (10,950)
CAB AND OPERATOR'S SEAT		
LARGE 4-POST CAB, TWO DOORS, AIR-CONDITIONING		STANDARD
DELUXE FULLY ADJUSTABLE AIR-SUSPENDED SEAT + INSTRUCTOR'S SEAT		STANDARD
DIMENSIONS AND WEIGHTS		
STD FRONT TIRES		420/85R30 R1 RADIAL
STD REAR TIRES		460/85R46 R1 RADIAL
A - HEIGHT OVER CAB	IN (MM)	120 (3051)
B - WHEELBASE	IN (MM)	113 (2873)
C - MAX. LENGTH (WITH BALLAST WEIGHTS)	IN (MM)	209 (5307)
D - GROUND CLEARANCE 4WD	IN (MM)	20.5 (521)
E - MINIMUM WIDTH TO THE GROUND	IN (MM)	95 (2415)
TOTAL WEIGHT (WITHOUT BALLAST WEIGHTS)	LBS (KG)	16,975 (7700)

