

4WD TRACTORS » 350-550 hp

 **VERSATILE**



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~ VERSATILE IT4 TRACTORS ~

The Environmental Protection Agency (EPA) designed a framework to improve emissions standards in off-highway vehicles including farm machinery. Development of a new four-wheel drive designed to meet the strict interim Tier 4 (iT4) emissions standards began more than five years ago.

It started with the engine; Cummins, the exclusive engine supplier to Versatile, outlined the path to achieving iT4 emission standards. Work began on a new cab and operator environment, focusing on visibility and operator comfort and convenience. Caterpillar® would provide a full range of powershift transmissions. New styling would improve visibility and become a design model for future Versatile tractors. And it had to maintain the reputation that Versatile four-wheel drives have carried since 1966.

The result is a new Versatile four-wheel drive designed to enhance the profitability of large scale farming operations and compete with the best in the world, while upholding the Versatile cornerstones of reliability, durability and ease of service and maintenance.





The Environmental Protection Agency (EPA) incorporated new regulations in 2011, commonly referred to as interim Tier 4 standards. These regulations mandate limits on NO_x (Nitrous Oxide) and reduced PM (particulate matter) in diesel engine exhaust. High NO_x levels in the atmosphere contribute to formation of acid rain and ground-level ozone. PM can present serious health risks for people and animals.

IT4 SOLUTION **OVERVIEW**

- » Single Fuel Solution
- » Exhaust Gas Recirculation (EGR)
- » Diesel Particulate Filter (DPF)
- » Full engine performance on cold day startups

	350	375	400	450	500	550
ENGINE						
Type	QSX 11.9L	QSX 11.9L	QSX 11.9L	QSX 15L	QSX 15L	QSX 15L
Horsepower	350 hp (201 kW)	375 hp (280 kW)	400 hp (298 kW)	450 hp (336 kW)	500 hp (373 kW)	550 hp (410 kW)
Power bulge	10% at 1800 RPM	11% at 1800 RPM	18% at 1800 RPM	11% at 1800 RPM	10% at 1800 RPM	7% at 1800 RPM
Peak horsepower	385 hp (287 kW)	415 hp (309 kW)	450 hp (336 kW)	500 hp (373 kW)	550 hp (410 kW)	591 hp (441 kW)
Torque rise	54% at 1400 RPM	55% at 1400 RPM	60% at 1400 RPM	51% at 1400 RPM	48% at 1400 RPM	49% at 1400 RPM
Peak torque	1350 lb-ft (1830 N•m)	1450 lb-ft (1966 N•m)	1600 lb-ft (2169 N•m)	1700 lb-ft (2305 N•m)	1850 lb-ft (2508 N•m)	2050 lb-ft (2779 N•m)

IT4 OPTIONS

In order to meet these EPA regulations, diesel engine manufacturers have developed systems to reduce the NOx and PM levels. These two systems are:

- » Exhaust Gas Recirculation / Diesel Particulate Filter (EGR/DPF)
- » Selective Catalytic Reduction (SCR)

THE VERSATILE SOLUTION

Although recognizing that SCR may be required to achieve final Tier 4 emission standards, Versatile, in partnership with Cummins, will use the EGR/DPF emission control system incorporating the Cummins-patented Variable Geometry Turbocharger (VGT) system to achieve interim Tier 4 emissions standards.

The VGT system will offer improved fuel economy to offset the increased cooling load needed for the Exhaust Gas Recirculation. In addition, up to 10% increased torque rise and 6% power bulge may be realized.

HOW DOES EGR/DPF WORK?

The Exhaust Gas Recirculation (EGR) process recycles a portion of the engine exhaust back to the cylinders in order to burn off more NOx during the engine combustion cycle.

This process also uses a Diesel Particulate Filter (DPF) to trap the carbon particles generated in the combustion process. The DPF uses a catalytic reaction to continuously burn up the carbon particles. This reaction occurs continuously during normal tractor operation. During cold weather operation or when operating with low loads, some carbon may build up. When this condition is sensed, the system momentarily injects a small amount of diesel fuel into the DPF in order to burn off this excess residue. This does not affect tractor performance.

BENEFITS OF EGR/DPF

- » Only single fuel (diesel) required for operation eliminating capital outlay for storage equipment and reducing service time.
- » The internal composition of the DPF reduces exhaust noise.
- » Used in conjunction with a Variable Geometry Turbo (VGT) system which can tune engine performance to reduce fuel consumption and increase torque rise and power bulge.
- » Full engine performance can be realized even after startup in cold temperatures.



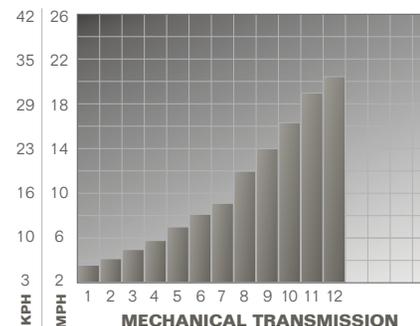


Each farm has specific operating conditions and implement demands. Versatile four-wheel drive tractors offer the choice of manual or powershift transmissions in most models, each developed to efficiently manage field demands and engine horsepower. Choose the best transmission for convenience and performance.

ENGINE & TRANSMISSION OVERVIEW

- » Large displacement Cummins QSX 11.9L and QSX 15L engines
- » Up to 13% power bulge at 2100 RPM, 60% torque rise
- » Caterpillar® 16-speed powershift transmissions available in all models
- » Programmable for auto-shifting and speed matching
- » 12 x 4 mechanical transmissions available in models up to 500 hp

Both mechanical and powershift transmissions are designed for maximum power and torque with speed variability within field working range. Because moving to the next field takes valuable time, up to 25 mph (40 km/hr) road speed is available. »



QSX 11.9L 350-400

A Cummins QSX 11.9L engine powers the 350, 375, 400 models. The 11.9L in-line six-cylinder turbocharged engine delivers superior performance using advanced combustion technology. Single fuel technology means less maintenance yet meets stringent emissions standards.



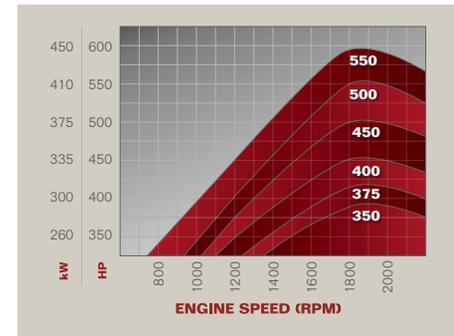
QSX 15L 450-550

The high horsepower range of Versatile 4WD tractors features a QSX 15L engine that provides excellent power and torque. The high displacement six-cylinder engine which uses EGR/DPF emissions technology offers higher torque rise ensuring it is never short on power and always up to task.



POWER GROWTH

The new iT4 Cummins QSX engines give the new Versatile 4WD an impressive 13% power bulge at 2100 RPM. The new engines are also capable of achieving up to a 60% torque rise, an increase of 25% over previous generations.



TA19 & TA22

The entire line of Versatile four-wheel drive tractors now feature 16 x 4 CAT® powershift transmissions. The 350, 375, 400, and 450 models use the TA19. The Versatile 500 and 550 feature the TA22.



The smooth shifting dependable CAT® transmissions offer 25 mph (40 km/hr) road speeds and a large selection of working range gears for every application. Both transmissions are programmable for auto-shifting and speed matching.



MECHANICAL TRANSMISSION

The mechanical 12 x 4 transmission features four synchronized sequential smooth-shifting gears in each of its three ranges. These gears have closely matched speed increments in the critical band from 3-8 mph (5-13 km/hr) to provide flexibility for every farming application.



The closed center load sensing hydraulic system provides ample capacity for implements that demand high hydraulic flow by providing pressure and flow on demand. When no hydraulic power is required, the system goes into low-pressure standby to conserve energy, providing more power at the drawbar.

HYDRAULIC **OVERVIEW**

- » Choice of mechanical or electro-hydraulics
- » Standard Flow of 58 gpm (220 L/min)
- » Optional High Flow of 113 gpm (428 L/min) with split valve functionality
- » Increased reservoir capacity
- » Reservoir sight glass

MECHANICAL HYDRAULICS

Mechanical hydraulic levers, positioned for easy reach, manage a variety of applications and have the flexibility to do multiple functions simultaneously. Using lever locks, the mechanical hydraulic levers can be locked in neutral, kept out of the float position, or held at retract for hydraulic motor operation.

ELECTRO-HYDRAULICS

Optional electro-hydraulics, available on all models, are ergonomically designed for both comfort and convenience. Finger-tip controls manage the hydraulic functions and hydraulic flow is increased and decreased using the EHR monitor.



DRAWBAR

The drawbar pull point on Versatile four-wheel drives is immediately behind the articulation point, which features a large-diameter pivot pin for maximum strength and durability.

3-POINT HITCH

A 3-point hitch is available on all Versatile 4WD tractors. Models 350, 375, 400 feature a Category III wide / IV Narrow hitch and a Category IV 3-point hitch is standard on models 450, 500, 550.

PTO

PTO output with a 1-3/4" shaft is available as an option for all Versatile 4WD tractors.



HITCH PIN

The 500 and 550 4WD tractors offer a standard Cat. V, 2-1/2" (64 mm) hitch pin with an option Cat. IV, 2" (51 mm) pin for smaller implements. The 350, 375, 400 and 450 has a standard Cat. IV, 2" (51 mm) pin with an optional Cat. III, 1-1/2" (38 mm) pin available.



HYDRAULIC FLOW

A total hydraulic flow of 58 GPM (220 L/min) is standard, or 113 GPM (428 L/min) with the optional high flow hydraulic system.

Four remote valves are standard, six optional.



DRAWBAR

The standard drawbar can move from side to side or be locked in place.



HD DRAWBAR SUPPORT

The fixed heavy-duty drawbar increases static load capacity for implements such as grain carts, silage trailers & manure wagons.



PIVOT PIN

Models 350, 375 and 400 feature a 2.36" (60 mm) pivot pin while models 450, 500 and 550 have a 3.15" (80 mm) pivot pin.

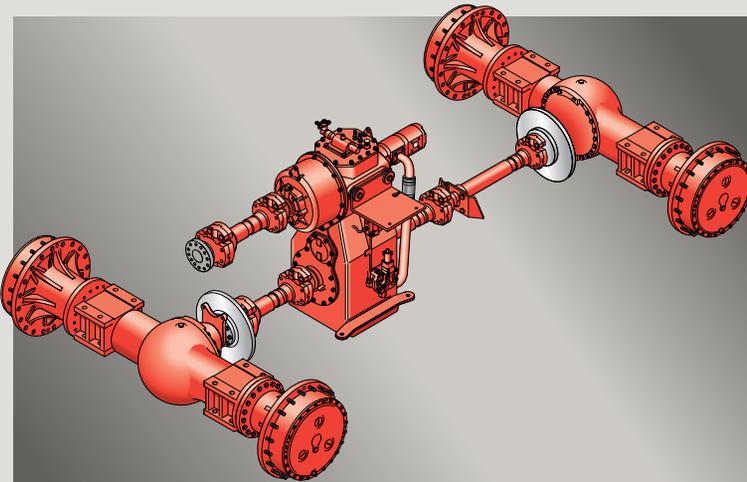


SERVICING

The articulation area is kept as open as possible to provide easy service access to the drivelines and the transmission.

OUTBOARD PLANETARIES

In the 1970's, Versatile engineers developed the outboard single reduction planetary axle, known in the industry for its strength, simplicity, ease of service and wheel mounting. The tradition of building the most reliable planetary combination in the industry starts with placing the planetary and sun gears towards the outside of the axle. Outboard planetary axles deliver all available horsepower through a large, precision machined floating sun gear. The planetary hubs are suspended on large diameter bearings mounted directly to the axle tubes. The load is supported by the axle housing assembly and not by the drive train components. All Versatile 4WD tractors feature reliable final drives that deliver horsepower where it counts: at the drawbar.



SERVICING

The planetary axles remain on the tractor during routine maintenance, limiting downtime. Daily inspections are easy with a quick visual check of the axle oil level indicators. The gears can also be reversed to double the wear life.



HEAVY-DUTY PLANETARY FINAL DRIVE

All models feature a large, reliable heavy-duty planetary final drive to provide long service with heavily ballasted tractors and big implements. Large bearings support the planetary hubs on the axle housings. They are built with large axle tubes and planetaries capable of standing up to heavy weights and capable of handling increased bending loads associated with wide dual or triple wheel options.



FINAL DRIVES

The final drive mounts to the end of the axle housing. Drive shafts and planetaries can be serviced without removing the axle assembly from the tractor.



AXLE HOUSINGS

Heavy-duty axle housings carry the tractor load, not the axle assembly. This enhances the axle life because the weight is evenly distributed.



WEIGHTS

The front weight system has been replaced with an under-mount weight systems to increase visibility reduce shedding length and allow for easier service access.

FRAME CONSTRUCTION

The frame is manufactured from thick high-grade steel plate to ensure structural integrity even under extreme conditions. The main bearing at the articulation point is larger than prior models to enhance reliability. The drawbar pull point on Versatile four-wheel drives is immediately behind the articulation point which provides maximum pulling power when making tight turns in the field.

FUEL CAPACITY AND WEIGHT DISTRIBUTION

Two fuel tanks provide a total capacity of 300 U.S. gallons in the 350, 375 and 400, while models 450, 500 and 550 have a capacity of 400 U.S. gallons. The two fuel tanks are connected with a crossover tube for convenient refueling on either side of the tractor. The tanks are located at the optimum position near the center of the tractor to maintain the front-to-rear weight distribution. As the fuel level drops, the front-to-rear weight ratio remains the same so balance and ballast levels are not affected, regardless of fuel level.



FENDERS

Fenders offer increased clearance for larger tires. An increased tire selection allows Versatile 4WDs to be more application specific.

OSCILLATION

The flexibility provided by the subframe and drag link assembly permits up to 15° of oscillation on each side (30° total) as the tractor moves over uneven terrain.

ARTICULATION

Large 3.5" (89 mm) steering cylinders articulate the tractor smoothly and quickly. A maximum articulation angle of 42° (38° in models 350 to 400) means a tight turnaround radius of less than 16' (4.9 m).





CAB OVERVIEW

- » 175.5 cu. ft. (4.97 cu. m) of volume
- » 85.9 sq. ft. (7.98 sq. m) of window glass area
- » Improved training seat
- » Integrated Control Console
- » Multi-directional vents

IMPROVED CAB

The new Versatile cab is the largest in the industry. Improved comfort and ergonomics are designed for long days in the field.

The standard cab offers an air-ride suspension swivel seat while the Deluxe Cab includes a heated, semi-active suspension seat. The training seat is standard in the Deluxe Cab and can be added as an option to the standard cab. An under seat storage compartment helps keep the cab organized.



IMPROVED STANDARD CAB OFFERING

The new Versatile four-wheel drives offer the largest cab in the industry. The cab interior is 20% larger than previous models and offers 85.9 sq. ft. (7.98 sq. m) of window glass an increase of 14% from previous models. The new cab and hood design also increase forward visibility by 35% over the last generation. Additional standard cab features include; a front and rear intermittent wiper/washer system, front and rear sun visors, four 12-volt outlets, four cup holders, and multi-directional vents.

DELUXE CAB

The new Deluxe Cab is a high-end full-featured cab that provides the operator with every imaginable comfort for long working days. A semi-active air-ride suspension seat and the training seat are both standard in this configuration. In addition to the connectivity options available in the standard cab, the Deluxe Cab has an 110v AC power outlet and a 5-volt integrated USB port. A subwoofer is also standard to improve sound quality in the cab.



DASH CONSOLE

The redesigned dash console is narrower than previous versions to increase forward visibility. The steering console has standard tilt and telescopic operation to provide additional operator comfort. A newly designed dash display simplifies information for improved readability.



TRAINING SEAT

A comfortable training seat is available as an option and is standard in the Deluxe Cab. The seat has storage underneath and folds down to hold a laptop.



OPERATOR SEAT

The operator seat has a 104° swivel range to maximize visibility when towing implements. Air ride suspension and a heated seat are standard in the Deluxe Cab.



VENTS

Large multi-directional vents optimize comfort and help create an ideal cab environment.



RADIO

A conveniently located stereo and high quality sound system help make long days in the cab more enjoyable.



CONVENIENCE

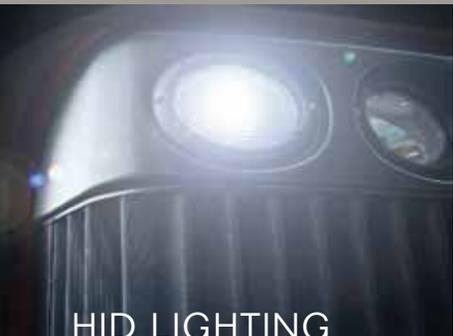
Four cup holders are standard. The cab also has coat hooks to keep the cab clean and organized.



WORK LIGHTS

For low-light working conditions, Versatile tractors are equipped with fourteen standard worklights mounted on the grille, front fenders, rear fenders and cab.

For additional safety, rotating magnetic roof-mounted beacon lights are also available (standard on Deluxe cab).



HID LIGHTING

There are never enough hours in the day so light your way with HID. These lights provide up to ten times more light than conventional headlights.

The HID light package replaces four of the standard halogen work lamps with field illuminating HID lights, one on each fender and two headlights on the grille.





VISIBILITY

A narrow compact front console increases forward visibility and operator comfort.

A 14% increase in glass area and improved mirror positioning give you a 360° of your field.



REAR VIEW

Enjoy a clear view from the seat of your cab. There is a clear sightline to the drawbar when attaching implements.



- 9. Auto-Steer
- 10. Front and Rear Wiper/Washer system
- 11. Lighting package controls
- 12. Diff-Lock
- 13. Reversible Fan
- 14. Arm Rest
- 15. Additional controls, depending on optional equipment (additional headland management, 3-point hitch control)
- 16. Storage area

- 1. Programmable Display Monitor
- 2. Powershift Transmission Control Lever
- 3. Headland Management
- 4. Cruise Control
- 5. Hand throttle control lever
- 6. Hand rest
- 7. Four standard Electro-Hydraulic Valves
- 8. Optional six Electro-Hydraulic Valves



CONTROLS

The Versatile four-wheel drive was designed to maintain a comfortable working environment for extended periods of time. By creating an integrated right hand control console, available with the powershift transmission, Versatile puts command of the tractor at your fingertips.

The console moves with the seat so you always have control of your equipment. The arm rest and molded hand rest provide an ergonomic solution with operating the tractor. Additional storage space is available under the arm rest.

Tractors equipped with mechanical hydraulics and a mechanical transmission also feature a new side console that is designed to be ergonomic without sacrificing functionality.



MONITOR

A 7" high-resolution monitor is standard with EHR controls. The monitor can be programmed to display your hydraulic settings for quick reference. The monitor can also support up to four external cameras. The display is mounted using a shock absorbing suspension and is "sunshine-readable".



DASH DISPLAY

A programmable center high-resolution display provides readouts on: transmission functions, engine functions, field monitoring and basic tractor functions. RPM, speed, temperature and fuel are all displayed on simple to read analog gauges.



EHR CONTROLS

Electro-hydraulics are available in a four-valve set up and an optional six-valve configuration. The monitor is standard when equipped with EHR.



POWERSHIFT LEVER

A four-function powershift lever gives you quick control over forward, reverse, upshift and downshift functions, eliminating the need for a clutch pedal.



THROTTLE

A simple responsive hand throttle helps you set your RPMs where you need them for various fieldwork.



There are never enough hours in the day and every minute counts. That's why all Versatile tractors are designed with easy serviceability in mind. Routine service can extend the life of your tractor, minimize downtime and lower your operating costs.

SERVICE & MAINTENANCE **OVERVIEW**

- » Eye-Level Fuel Sight Gauge
- » Proven Versatile Planetary System
- » Ground Level Battery Access
- » Left and Right Hand Fueling
- » Unparalleled Engine Service Access

It's simple to repair the planetary gears without the need to jack up and support the tractor to remove the complete axle. »

Planetary axle covers can be removed from the tractor without removing the axles and tires. Removing the planetary cover exposes the planetary gears, the sun gear and the axle shaft for service or routine maintenance.



DAILY MAINTENANCE

Daily maintenance is made easy with improved access to all fill and grease points. The hydraulic and fuel sight gauges are visible from the ground without opening side panels or removing any shields. The gullwing-style side panels open wide to provide excellent service access to all under-hood components.

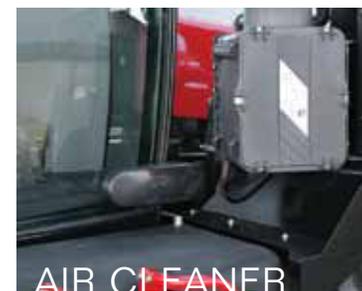
AXLE SERVICING

The Versatile outboard planetary axle system is known for its ease of service. Planetary axle covers can be removed from the tractor without removing the axles and tires, limiting the amount of time needed for routine maintenance.



FUEL SIGHT GAUGE

Protected underneath the entrance ladder a full-length fuel sight gauge gives operators a quick view of the fuel level before entering the tractor.



AIR CLEANER ASSEMBLY

A dry element air filter is easily accessed and removed when it needs to be replaced.



FUELING

Refueling can easily be accomplished from either side of the tractor. A crossover tube allows both tanks to be filled quickly and with capacities of 300 and 400 U.S. gallons (1335 and 1514 L) you'll have many hours in the field before stopping for fuel.



STORAGE

Additional storage compartments are located on either side of the battery. An optional frame-mounted toolbox is available.



ACCESS

A right hand ladder gives you access to the engine air cleaner for quick servicing. The ladder also helps with right side fueling and provides access to the egress door.



GRILLE ACCESS

The front grille swings open to provide ground level service access to the condenser/cooler package. The cooler and condenser package swings open for service access. A reversible fan is optional on all models to increase efficiency and provide quick cleanout.

The batteries are also located behind the grille at ground level and a shut off switch is standard for safety, winter storage and to prevent against theft.

Steel ballast is mounted under the front of the tractor improving service access, visibility and reducing storage size.

OWNERSHIP BENEFITS

Investing in equipment for your farming operation is an important decision and a long-term commitment. The Versatile 3-year / 3000-hour powertrain warranty ensures an excellent ownership experience. Your Versatile dealer has access to our dealer service support system, including a wide base of knowledge on current and past Versatile models and expansive parts inventory.



WARRANTY

Versatile tractors come with a 3-year / 3000-hour warranty* that provides peace of mind. The warranty includes 2-years / 2000-hour comprehensive coverage and major powertrain components such as the engine and transmission are covered for an additional 1-year / 1000-hours.

*Excludes Scraper Special

PARTS & SERVICE

Versatile dealers have access to an extensive parts supply that is well stocked with the parts for routine scheduled maintenance. Versatile maintains an extensive parts supply for tractors dating back more than 20 years. Your Versatile dealer has factory-trained technicians that can handle everything from routine scheduled maintenance to major service and overhauls.



V-PAS

Every single Versatile tractor can come factory equipped with the Versatile Precision Ag System (V-PAS). This system is sure to produce accurate and efficient results in any farming application. V-PAS can help make the largest jobs an easy task.

CRUIZER

Increased Flexibility V-PAS brings greater accuracy and efficiency to a variety of operations – from tillage to seeding to spraying. V-PAS can be easily moved from one piece of equipment to the other, which makes a great guidance unit for equipment and applications that do not require upper-end capability.

Guided Profitability V-PAS benefits go straight to your bottom line – especially when considering the competitive price and quick payback. With V-PAS you can know more, control more and ultimately make more.

High Resolution Screen A large 5.7" (145 mm) touch screen displays easy to understand features and icon based menus. A day/night mode ensures the screen can be seen anytime of day.

Visual Perspective A 3-D aerial perspective allows the operator to adjust for any natural earth contours. Field view screen helps verify coverage and identifies skips. V-PAS also calculates acreage within a defined boundary so you know just how much ground was covered.

Guidance Technology Last Pass guidance is the industry's easiest to operate– especially for irregularly shaped fields. Automatic correction intelligence virtually eliminates the possibility of repeating an error on one pass.

Record Keeping Bitmap files can be quickly saved and printed for reports showing coverage map and acreage covered. And with KML files, you can import your coverage information into Google™ Maps or Google™ Earth.



	350	375	400
ENGINE			
Engine type	Cummins QSX11.9	Cummins QSX11.9	Cummins QSX11.9
Aspiration	Turbocharged & air-to-air aftercooled	Turbocharged & air-to-air aftercooled	Turbocharged & air-to-air aftercooled
Displacement	11.9-liter	11.9-liter	11.9-liter
Horsepower	350 hp (201 kW)	375 hp (280 kW)	400 hp (298 kW)
Power bulge	10% @ 1800 RPM	11% @ 1800 RPM	13% @ 1800 RPM
Peak horsepower	385 hp (287 kW)	415 hp (309 kW)	450 hp (336 kW)
Torque rise	54% @ 1400 RPM	55% @ 1400 RPM	60% @ 1400 RPM
Peak torque	1350 lb-ft (1830 N•m)	1450 lb-ft (1966 N•m)	1600 lb-ft (2169 N•m)
FUEL SYSTEM			
Capacity	300 U.S. gal (11335 L)	300 U.S. gal (11335 L)	300 U.S. gal (11335 L)
Filter	Engine mounted w/water separator	Engine mounted w/water separator	Engine mounted w/water separator
TRANSMISSION			
Quadshift transmission	Mechanical 12 x 4 - 22 mph (35 km/hr) road speed	Mechanical 12 x 4 - 22 mph (35 km/hr) road speed	Mechanical 12 x 4 - 22 mph (35 km/hr) road speed
Powershift transmission	Caterpillar 16 x 4 - 25 mph (40 km/hr) road speed	Caterpillar 16 x 4 - 25 mph (40 km/hr) road speed	Caterpillar 16 x 4 - 25 mph (40 km/hr) road speed
AXLES			
Versatile Outboard Planetary Axles	Standard / Heavy-duty, optional	Heavy-duty	Heavy-duty
Differential Lock	Optional	Optional	Optional
Brakes	Single dry caliper	Single dry caliper	Dual dry caliper
Wheelbase	135" (3429 mm)	135" (3429 mm)	135" (3429 mm)
HYDRAULICS			
Hydraulic type	Closed Center Load Sensing System	Closed Center Load Sensing System	Closed Center Load Sensing System
Standard flow	58 GPM (220 L/min)	58 GPM (220 L/min)	58 GPM (220 L/min)
High Flow hydraulic system	113 GPM (428 L/min)	113 GPM (428 L/min)	113 GPM (428 L/min)
Hydraulic remotes	4 standard, 6 optional	4 standard, 6 optional	4 standard, 6 optional
Maximum system pressure	2900 PSI (197 bar)	2900 PSI (197 bar)	2900 PSI (197 bar)
ELECTRICAL SYSTEM			
Alternator	12V - 200 amps	12V - 200 amps	12V - 200 amps
Batteries	3-12V, 950 CCA ea.	3-12V, 950 CCA ea.	3-12V, 950 CCA ea.
HID lighting / Power mirrors	Optional / Optional	Optional / Optional	Optional / Optional
Battery shut-off switch	Standard	Standard	Standard
DRAWBAR			
Vertical load rating	6,000 lb (2,722 kg)	6,000 lb (2,722 kg)	6,000 lb (2,722 kg)
Vertical load rating w/heavy-duty drawbar support	9,000 lb (4,082 kg)	9,000 lb (4,082 kg)	9,000 lb (4,082 kg)
Hitch pin diameter (w/auto drop)	2" (51 mm)	2" (51 mm)	2" (51 mm)
Quick Hitch	Optional	Optional	Optional
3-point hitch	Category III/IVN	Category III/IVN	Category III/IVN
PTO	1000 RPM, 1-3/4 shaft	1000 RPM, 1-3/4 shaft	1000 RPM, 1-3/4 shaft
CAB			
Volume	175.5 cu. ft. (4.97 cu. m)	175.5 cu. ft. (4.97 cu. m)	175.5 cu. ft. (4.97 cu. m)
Glass	85.9 sq. ft. (7.98 sq. m)	85.9 sq. ft. (7.98 sq. m)	85.9 sq. ft. (7.98 sq. m)
WEIGHTS			
Base tractor weight*	31,500 lb (14,288 kg)	31,500 lb (14,288 kg)	31,500 lb (14,288 kg)
Maximum operating weight	35,000 lb (15,875 kg)	37,500 lb (17,010 kg)	40,000 lb (18,144 kg)

*A base tractor is considered to have a mechanical transmission, with 710/70R38 drum-style duals, a standard drawbar, no fuel, no operator, no special added equipment and no ballast.

	450	500	550
ENGINE			
Engine type	Cummins QSX15	Cummins QSX15	Cummins QSX15
Aspiration	Turbocharged & air-to-air aftercooled	Turbocharged & air-to-air aftercooled	Turbocharged & air-to-air aftercooled
Displacement	15-liter	15-liter	15-liter
Horsepower	450 hp (336 kW)	500 hp (373 kW)	550 hp (410 kW)
Power bulge	11% @ 1800 RPM	10% @ 1800 RPM	7% @ 1800 RPM
Peak horsepower	500 hp (373 kW)	550 hp (410 kW)	591 hp (366 kW)
Torque rise	51% @ 1400 RPM	48% @ 1400 RPM	49% @ 1400 RPM
Peak torque	1700 lb-ft (2305 N•m)	1850 lb-ft (2508 N•m)	2050 lb-ft (2779 N•m)
FUEL SYSTEM			
Capacity	400 U.S. gal (1514 L)	400 U.S. gal (1514 L)	400 U.S. gal (1514 L)
Filter	Engine mounted w/water separator	Engine mounted w/water separator	Engine mounted w/water separator
TRANSMISSION			
Quadshift transmission	Mechanical 12 x 4 - 22 mph (35 km/hr) road speed	N/A	N/A
Powershift transmission	Caterpillar 16 x 4 - 25 mph (40 km/hr) road speed	Caterpillar 16 x 4 - 25 mph (40 km/hr) road speed	Caterpillar 16 x 4 - 25 mph (40 km/hr) road speed
AXLES			
Versatile Outboard Planetary Axles	Standard / Heavy-duty, optional	Heavy-duty	Heavy-duty
Differential Lock	Optional	Optional	Optional
Brakes	Dual dry caliper	Dual dry caliper	Dual dry caliper
Wheelbase	154" (3900 mm)	154" (3900 mm)	154" (3900 mm)
HYDRAULICS			
Hydraulic type	Closed Center Load Sensing System	Closed Center Load Sensing System	Closed Center Load Sensing System
Standard flow	58 GPM (220 L/min)	58 GPM (220 L/min)	58 GPM (220 L/min)
High Flow hydraulic system	113 GPM (428 L/min)	113 GPM (428 L/min)	113 GPM (428 L/min)
Hydraulic remotes	4 standard, 6 optional	4 standard, 6 optional	4 standard, 6 optional
Maximum system pressure	2900 PSI (197 bar)	2900 PSI (197 bar)	2900 PSI (197 bar)
ELECTRICAL SYSTEM			
Alternator	12V - 200 amps	12V - 200 amps	12V - 200 amps
Batteries	3-12V, 950 CCA ea.	3-12V, 950 CCA ea.	3-12V, 950 CCA ea.
HID lighting / Power mirrors	Optional / Optional	Optional / Optional	Optional / Optional
Battery shut-off switch	Standard	Standard	Standard
DRAWBAR			
Vertical load rating	9,000 lb (4,082 kg)	9,000 lb (4,082 kg)	9,000 lb (4,082 kg)
Vertical load rating w/heavy-duty drawbar support	12,000 lb (5,443 kg)	12,000 lb (5,443 kg)	12,000 lb (5,443 kg)
Hitch pin diameter (w/auto drop)	2" (51 mm)	2" (51 mm)	2" (51 mm)
Quick Hitch	Optional	Optional	Optional
3-point hitch	Category IV	Category IV	Category IV
PTO	1000 RPM, 1-3/4 shaft	1000 RPM, 1-3/4 shaft	1000 RPM, 1-3/4 shaft
CAB			
Volume	175.5 cu. ft. (4.97 cu. m)	175.5 cu. ft. (4.97 cu. m)	175.5 cu. ft. (4.97 cu. m)
Glass	85.9 sq. ft. (7.98 sq. m)	85.9 sq. ft. (8 sq. m)	85.9 sq. ft. (8 sq. m)
WEIGHTS			
Base tractor weight*	42,000 lb (19,050 kg)	42,000 lb (19,050 kg)	42,000 lb (19,050 kg)
Maximum operating weight	45,000 lb (20,411 kg)	50,000 lb (22,680 kg)	55,000 lb (24,948 kg)

*A base tractor is considered to have a mechanical transmission, with 710/70R38 drum-style duals, a standard drawbar, no fuel, no operator, no special added equipment and no ballast.



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