

650 P

Dozer



JOHN DEERE



THE FOUNDATION OF THE WORK YOU DO

You've been in the construction industry for a long time. So you know that your work is about more than just moving material. The success of your operation depends on your dozer and the productivity and retention of able operators. Input from customers like you has helped us design and manufacture dozers for almost 75 years, and our 650 P-Tier is built on the bedrock of some of your best ideas. This dynamo includes proven standard features plus innovative options like flexible grade-control solutions that can be easily and economically upgraded — all to enhance the operating experience and help you manage ownership costs.

Set things up

Because no two operators have the same work skill or technique, adjustable hydraulic and transmission settings can be customized to individual user preferences, for responsive control, smooth stability, and precise grading performance.

It's all about the operator

Next-generation cab is 14-percent larger than the previous model, to elevate operator comfort. Redesigned controls that minimize hand and arm movements, advanced touch-screen displays with configurable settings, and optional premium heated/ventilated seat and automatic temperature control (ATC) system help get operators up to speed and in the productive zone.

Visibility matters

A lower hood line and 14-percent more glass area expand visibility to the blade and jobsite ahead. Optional rearview camera boosts awareness of the activity behind the machine. LED light package brings things into focus in darker environments.

Put progress on display

Standard on electrohydraulic configurations, eight-inch touch-screen primary display reveals machine health and configurable settings plus rearview camera and Slope Control (if equipped). Additional 10-inch touch-screen display for navigating the grade-control interface is added when the machine is outfitted with dual-laser receivers.



GRADE-MANAGEMENT OPTIONS
STREAMLINE
GRADING TASKS &
LEARNING CURVES





GRADE-MANAGEMENT SOLUTIONS

Our suite of factory-integrated grade-management technologies including standard EZ Grade, optional Slope Control, SmartGrade™ Ready Including 2D Grade Control, SmartGrade with Topcon, and SmartGrade with Leica simplify difficult grading tasks. These intuitive offerings are easy for operators of any experience level to master. All technology solutions are fully supported by the John Deere dealer network and can be efficiently upgraded as your operation evolves:

- **EZ Grade** aids operators in manually grading smooth finish passes by making small blade corrections automatically.
- **Slope Control** assists in grading and maintaining flat, smooth, and sloping surfaces. Operators can view and set blade slope while the system automatically controls the blade to the desired slope percentage.
- **Slope Control With Dual Laser** enables operators to automatically control the blade to a specific slope and elevation using a rotating laser.
- Fully integrated **SmartGrade** features next-generation components and integration, enabling the highest levels of productivity and grading performance. SmartGrade is now available in your choice of Topcon or Leica packages.
- **Electrohydraulic (EH) controls** make it easy to add the grade-control system of your choice.

Operator detection

Operator-presence system uses sensor technology to detect that the seat of both cab and canopy models is occupied before the park brake is released, to prevent unintentional machine movement.

Management fundamentals

Simply set maximum desired ground speed and the power-management system automatically maintains peak engine speed and power efficiency without stalling or shifting.

Take your turn

Counter-rotation boosts productivity by enabling operators to overcome heavy corner loads and quickly reposition the blade on the go.

Tough where it counts

Thickened SC-2 coating on the bushings of the optional Maximum Life undercarriage helps reduce wear life by up to 75 percent over standard heavy-duty sealed and lubricated (SALT) undercarriages, to keep working longer. Routings of hydraulic hoses and electrical harnesses have been optimized to reduce leaks, rubbing, and time-consuming replacement.

Fuel saver

Standard Eco mode automatically adjusts engine speed and power-train settings based on load, to maximize fuel usage by up to 20 percent compared to standard operating mode, without loss of performance.

Get a full measure

Integrated welded-on spill sheet on the large 128-inch-wide blade increases capacity and helps reduce damage caused by material spillage behind the blade.



**OPTIONAL MAXIMUM LIFE THICKENED SC-2™ COATING
BOOSTS BUSHING WEAR LIFE UP TO
OVER STANDARD HEAVY-DUTY SALT UNDERCARRIAGE**



650 P-TIER DOZER



ING
75%
GES



Connected machines

John Deere construction equipment comes with in-base connectivity — free from subscriptions or annual renewals. Analyze critical machine data, track utilization, review diagnostic alerts, and more from **the John Deere Operations Center™**. The Operations Center also enables John Deere Connected Support™, which uses data from thousands of connected machines to proactively address issues before they arise. With your approval, your dealer can also remotely monitor machine health, diagnose problems, and even update machine software without a trip to the jobsite.*

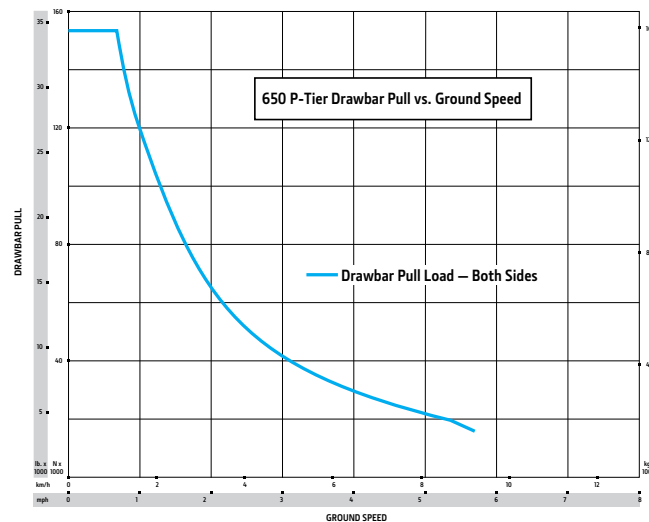
*Availability varies by region and product. Options not available in every country.



650 P-TIER DOZER SPECIFICATIONS

While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

Engine		650 P-TIER XLT / 650 P-TIER LGP
Manufacturer and Model	John Deere PowerTech™ PWS 4045	John Deere PowerTech™ PWX 4045
Non-Road Emission Standard	EPA Final Tier 4/EU Stage V	EPA Tier 3/EU Stage IIIA
Displacement	4.5L (276 cu. in.)	4.5L (276 cu. in.)
SAE Net Rated Power	78 kW (104 hp) at 1,900 rpm	78 kW (104 hp) at 1,900 rpm
Net Peak Torque	492 Nm (363 ft.-lb.) at 1,400 rpm	450 Nm (332 ft.-lb.) at 1,300 rpm
Aspiration	Turbocharged with charge-air cooler	Turbocharged with charge-air cooler
Air Cleaner	Dual-stage dry tube with tangential unloader	Dual-stage dry tube with tangential unloader
Cooling		
Type	Variable-speed suction fan with optional reversing feature	
Engine Coolant Rating	-37 deg. C. (-34 deg. F)	
Engine Radiator	8.47 fins per in.	
Powertrain		
Transmission	Automatic, dual-path, hydrostatic (HST) drive; load-sensing feature automatically adjusts speed and power to match changing load conditions; each individually controlled track is powered by a variable-displacement piston pump and variable-displacement motor combination; ground-speed selection buttons and direction-control switch on single-lever steering control; independently selectable reverse speed ratios of 100%, 115%, or 130% of forward ground speed; decelerator pedal controls ground speed to stop	
System Relief Pressure	42 692 kPa (6,192 psi)	
Travel Speeds		
Forward and Reverse	8.0 km/h (5.0 mph)	
Maximum (optional)	9.7 km/h (6.0 mph)	
Steering	Single-lever steering, speed, direction control, and counter-rotation; full power turns and infinitely variable track speeds provide unlimited maneuverability and optimum control; HST steering eliminates steering clutches and brakes	
Final Drives	Triple-reduction final drives mounted independently of track frames and dozer push frames for isolation from shock loads	
Total Ratio	52.13 to 1	
Drawbar Pull		
Maximum	152 kN (34,250 lb.)	
At 1.9 km/h (1.2 mph)	104 kN (23,330 lb.)	
At 3.2 km/h (2.0 mph)	65 kN (14,685 lb.)	
Brakes		
Service	HST (dynamic) braking stops the machine when the direction-control switch is moved to neutral or the decelerator is depressed to the detent	
Parking	Engages wet, multiple-disc brakes whenever the engine stops, the decelerator is depressed to the end of travel, or motion is detected while the transmission control is in neutral; machine cannot be driven with brake applied, minimizing wearout; spring applied, hydraulic release	
Hydraulics		
Type	Open-center hydraulic system with fixed-displacement gear pump	
Pump Displacement	35.4 cc	
System Relief Pressure	20 684 kPa (3,000 psi)	
Maximum Flow at Unloaded High Idle	71.5 L/m (19 gpm)	
Control	3-function direct-acting T-bar grip with proportional roller angle function	
Electrical		
Voltage	24 volts	
Capacity		
Battery	950 CCA	
Reserve	190 min.	
Alternator Rating		
Cab	100 amp	
Canopy	100 amp	
Lights	Cab mounted (4) standard / Cab-mounted LED (8) optional	



650 P-TIER DOZER SPECIFICATIONS

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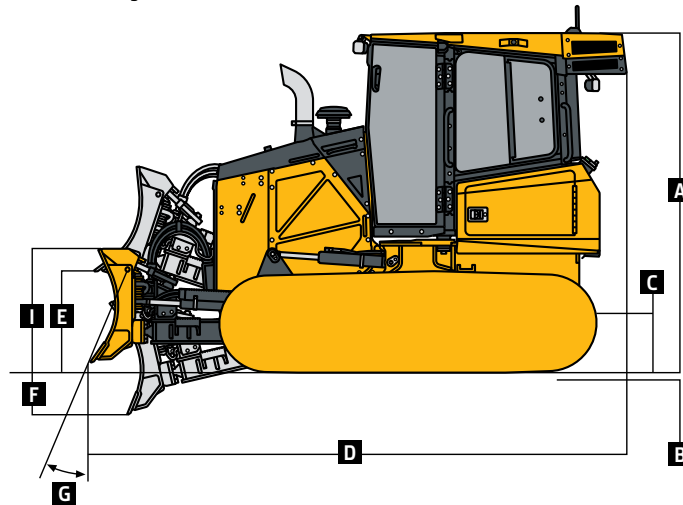
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Undercarriage		650 P-TIER XLT	650 P-TIER LGP
Tracks		John Deere undercarriage features large deep-heat-treated components; pins and bushings are sealed for life; rollers and idlers are permanently sealed and lubricated	
Track Gauge		1550 mm (61 in.)	1753 mm (69 in.)
Grouser Width		457 mm (18 in.)	711 mm (28 in.)
Chain		Sealed and lubricated	Sealed and lubricated
Shoes, Each Side		40	40
Track Rollers, Each Side		7	7
Track Length on Ground		2349 mm (92 in.)	2349 mm (92 in.)
Ground Contact Area		23 998 cm² (3,720 sq. in.)	37 336 cm² (5,787 sq. in.)
Ground Pressure		44.1 kPa (6.4 psi)	29.6 kPa (4.3 psi)
Track Pitch		171 mm (6.7 in.)	171 mm (6.7 in.)
Operator Station		650 P-TIER XLT / 650 P-TIER LGP	
ROPS (ISO 3471 – 2008) and FOPS (ISO 3449 – 2005)			
Serviceability			
Refill Capacities		Refill Capacities (continued)	
Fuel Tank With Lockable Cap	202 L (53.45 gal.)	Engine Oil With Filter	14.7 L (15.5 qt.)
Diesel Exhaust Fluid (DEF) Tank	12.4 L (3.3 gal.)	Hydraulic/HST Oil (common reservoir) With Filters	70.5 L (18.6 gal.)
Cooling System With Recovery Tank	16.9 L (4.5 gal.)	Final Drive (each)	8.5 L (2.3 gal.)
Operating Weights		650 P-TIER XLT	650 P-TIER LGP
Base Weight (with standard equipment, rollover protective structure [ROPS], full fuel tank, and 79-kg [175 lb.] operator)		9600 kg (21,165 lb.)	10 198 kg (22,484 lb.)
Optional Components			
Cab With Pressurizer and Heater/ Air Conditioner	361 kg (796 lb.)		361 kg (796 lb.)
Front and Door Screens	88 kg (193 lb.)		88 kg (193 lb.)
Rear Screen	50 kg (110 lb.)		50 kg (110 lb.)
Side Screens	60 kg (132 lb.)		60 kg (132 lb.)
Limb Risers	239 kg (528 lb.)		239 kg (528 lb.)
Condenser Guard	53 kg (117 lb.)		53 kg (117 lb.)
ROPS Canopy			
Heater	62 kg (136 lb.)		62 kg (136 lb.)
Front and Door Screens	74 kg (163 lb.)		74 kg (163 lb.)
Rear Screen	28 kg (61 lb.)		28 kg (61 lb.)
Side Screens	37 kg (82 lb.)		37 kg (82 lb.)
Limb Risers	239 kg (528 lb.)		239 kg (528 lb.)
Counterweight			
Front	109 kg (240 lb.)		109 kg (240 lb.)
Rear	150 kg (330 lb.)		150 kg (330 lb.)
Retrieval Hitch	23 kg (50 lb.)		23 kg (50 lb.)
Drawbar, Extended Rigid	33 kg (72 lb.)		33 kg (72 lb.)
Winch	652 kg (1,437 lb.)		652 kg (1,437 lb.)
Fairlead, 4 Roller	85 kg (187 lb.)		85 kg (187 lb.)
Center Chain Guides	33 kg (73 lb.)		33 kg (73 lb.)
Full-Length Rock Guards	41 kg (90 lb.)		41 kg (90 lb.)
Maximum Life Undercarriage	80 kg (175 lb.)		80 kg (175 lb.)
Track Shoes			
457 mm (18 in.)			
Heavy Duty	In base		–464 kg (–1,023 lb.)
Extended Life	16 kg (35 lb.)		–448 kg (–988 lb.)
Maximum Life	143 kg (315 lb.)		–321 kg (–708 lb.)
508 mm (20 in.)			
Heavy Duty	96 kg (212 lb.)		–368 kg (–811 lb.)
Extended Life	64 kg (141 lb.)		–400 kg (–882 lb.)
Maximum Life	192 kg (423 lb.)		–272 kg (–600 lb.)
610 mm (24 in.)			
Heavy Duty	—		–162 kg (–357 lb.)
Extended Life	—		–187 kg (–412 lb.)
Maximum Life	—		–60 kg (–132 lb.)
710 mm (28 in.)			
Heavy Duty	—		In base
Extended Life	—		–42 kg (–93 lb.)
Maximum Life	—		85 kg (187 lb.)

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Machine Dimensions	650 P-TIER XLT / 650 P-TIER LGP
A Overall Height to Roof (includes antenna base and grouser height)	2899 mm (9 ft. 6 in.)
Overall Height With Limb Risers (includes grouser height)	2928 mm (9 ft. 7 in.)
B Tread Depth With Single-Bar Grouser	49 mm (1.9 in.)
C Ground Clearance in Dirt	345 mm (13.6 in.)
D Overall Length	4250 mm (13 ft. 11 in.)
Overall Length With Standard Drawbar	4250 mm (13 ft. 11 in.)
Overall Length With Extended Drawbar	4414 mm (14 ft. 6 in.)
Overall Length With Winch and Fairlead Rollers	4974 mm (16 ft. 4 in.)
E Blade Lift Height	801 mm (31.5 in.)
F Blade Digging Depth	538 mm (21.2 in.)
G Blade Cutting-Edge Angle, Adjustable	52 to 60 deg.



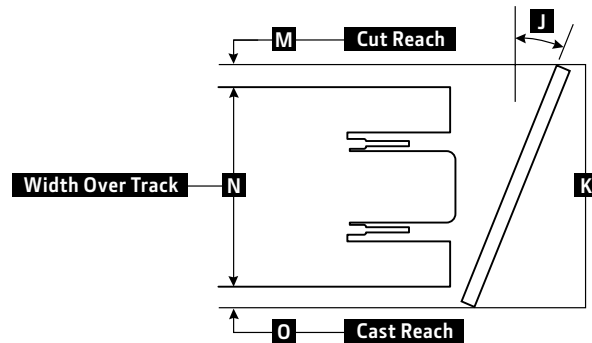
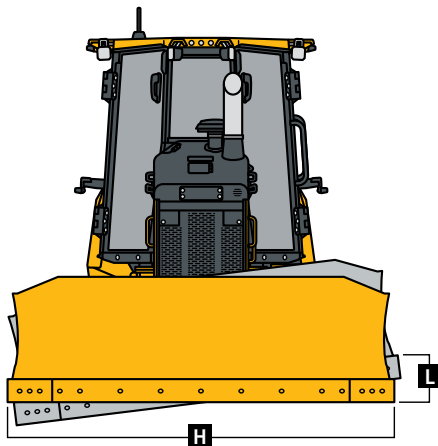
650 P-TIER XLT / 650 P-TIER LGP

Machine Dimensions (continued)	650 P-TIER XLT	650 P-TIER LGP
Straight Blade		
H Blade Width	2667 mm (105 in.) (8 ft. 9 in.)	2921 mm (115 in.) (9 ft. 7 in.)
I Blade Height	1067 mm (3 ft. 6 in.)	955 mm (3 ft. 2 in.)
SAE Capacity	2.2 m ³ (2.9 cu. yd.)	2.0 m ³ (2.6 cu. yd.)
Weight	608 kg (1,340 lb.)	628 kg (1,385 lb.)
C-Frame Assembly Weight (without blade)	512 kg (1,129 lb.)	512 kg (1,129 lb.)
J Blade Angle	22.9 deg.	22.9 deg.
K Overall Width With Blade Angled	2456 mm (8 ft. 1 in.)	2689 mm (8 ft. 10 in.)
L Blade Tilt	363 mm (14.3 in.)	393 mm (15.5 in.)
M Cut Reach	81 mm (3.2 in.)	-36 mm (-1.4 in.)
N Width Over Track	2007 mm (6 ft. 7 in.)	2464 mm (8 ft. 1 in.)
O Cast Reach	368 mm (14.5 in.)	261 mm (10.3 in.)
Straight Blade (option)		
H Blade Width	2921 mm (115 in.) (9 ft. 7 in.)	3150 mm (124 in.) (10 ft. 4 in.)
I Blade Height	955 mm (3 ft. 2 in.)	1067 mm (3 ft. 6 in.)
SAE Capacity	2.0 m ³ (2.6 cu. yd.)	2.3 m ³ (3.1 cu. yd.)
Weight	628 kg (1,385 lb.)	631 kg (1,391 lb.)
C-Frame Assembly Weight (without blade)	512 kg (1,129 lb.)	512 kg (1,129 lb.)
J Blade Angle	22.9 deg.	22.9 deg.
K Overall Width With Blade Angled	2689 mm (8 ft. 10 in.)	2899 mm (9 ft. 6 in.)
L Blade Tilt	393 mm (15.5 in.)	429 mm (16.9 in.)
M Cut Reach	193 mm (7.6 in.)	73 mm (2.9 in.)
N Width Over Track	2007 mm (6 ft. 7 in.)	2464 mm (8 ft. 1 in.)
O Cast Reach	490 mm (19.3 in.)	362 mm (14.3 in.)

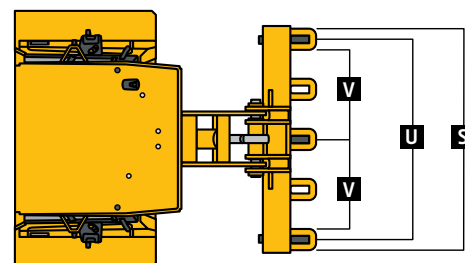
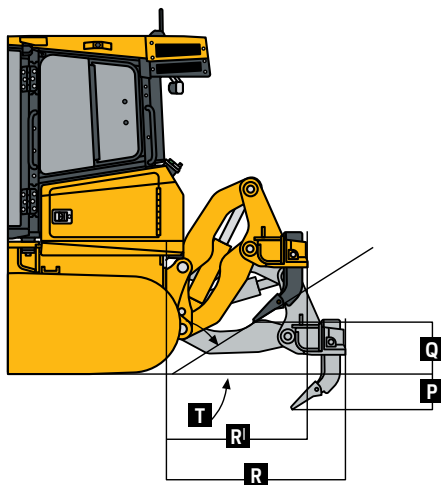
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Machine Dimensions <i>(continued)</i>		650 P-TIER XLT	650 P-TIER LGP
Straight Blade (option)			
H	Blade Width	—	3251 mm (128 in.) (10 ft. 8 in.)
I	Blade Height	—	1126 mm (3 ft. 8 in.)
	SAE Capacity	—	2.6 m ³ (3.4 cu. yd.)
	Weight	—	714 kg (1,574 lb.)
	C-Frame Assembly Weight (without blade)	—	512 kg (1,129 lb.)
J	Blade Angle	—	22.9 deg.
K	Overall Width With Blade Angled	—	3019 mm (9 ft. 11 in.)
L	Blade Tilt	—	433 mm (17 in.)
M	Cut Reach	—	127 mm (5 in.)
N	Width Over Track	—	2464 mm (8 ft. 1 in.)
O	Cast Reach	—	424 mm (16.7 in.)



Rear Ripper		650 P-TIER XLT / 650 P-TIER LGP
Multi-shank parallelogram ripper with 5 pockets and 3 shanks		
	Weight	981 kg (2,163 lb.)
P	Maximum Penetration	508 mm (20 in.)
Q	Maximum Clearance Under Tip	508 mm (20 in.)
R	Overall Length, Lowered Position	1450 mm (57 in.) (4 ft. 9 in.)
R^I	Overall Length, Raised Position	1015 mm (40 in.) (3 ft. 4 in.)
S	Overall Beam Width	1830 mm (6 ft. 0 in.)
T	Slope Angle (full raise)	40 deg.
U	Ripping Width	1670 mm (5 ft. 6 in.)
V	Distance Between Shanks	806 mm (32 in.)



Additional equipment

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

650	
P-TIER Engine	
● Turbocharged and air-to-air after-cooled	
● Electronic control with automatic engine protection	
● Eco mode	
● Dual safety element dry-type air cleaner, evacuator valve	
● Exhaust filter, under hood, with vertical stack	
● Engine glow-plug starting system	
● Automatic turbo cool-down timer	
● Programmable auto-idle and auto shutdown	
● Wet-sleeve cylinder liners	
● Remote-mounted fuel filters with automatic electronic priming	
▲ Engine coolant heater, 110 volts	
▲ Rotary ejector engine air pre-cleaner	
▲ Severe-duty fuel filter and water separator with heating element	
● 100-amp alternator, cab and canopy	
Cooling	
● Hydraulically driven cooling fan, variable-speed suction type	
▲ Automatic, programmable reversing-fan-drive fan	
● Engine cooling rated -37 deg. C (-34 deg. F)	
● Enclosed safety fan guard (conforms to SAE J1308 and ISO3457)	
● Perforated engine side shields	
● Heavy-duty, trash-resistant radiator and high-ambient cooling package	
▲ Heavy-duty perforated grille	

650	
P-TIER Powertrain	
● Dual-path hydrostatic (HST) transmission	
● Reverse-speed ratios (100%, 115%, and 130% presets)	
● Remote diagnostic test ports	
● Operator-selectable decelerator function (hydrostats and engine or hydrostats only)	
● Wet, multi-disc parking brake	
● Full power turns with infinitely variable track speed	
● Single-lever steering with counter-rotate function	
● HST (dynamic) service brakes	
● Automatic cold-weather transmission warmup system	
● Automatic transmission derating for exceeded system temperatures	
● 2,000-hour vertical spin-on transmission filter	
Hydraulic System	
● Open-center fixed-displacement hydraulic gear pump	
● 3-spool manual control valve	
▲ 3-spool electrohydraulic (EH) control valve	
▲ 4-spool manual-control valve	
▲ 4-spool EH control valve with single auxiliary	
● 2,000-hour vertical spin-on hydraulic filter	
▲ Drive-through hydraulic pump for use with winch	
▲ Fire Dozer Ready including 5-spool valve with float	
▲ Electrohydraulics with EZ Grade	

650	
P-TIER Precision Construction Solutions	
▲ 2D Grade Control	
▲ SmartGrade™ Ready Including 2D Grade Control	
▲ SmartGrade with Topcon	
▲ SmartGrade with Leica	
Overall Vehicle	
● Front tow loop, bolt-on	
● Reinforced engine and mid-frame bottom guards	
● Integral transmission guard	
● Vandal protection: Engine access door / Side tank access doors / Fuel tank / Instrument panel / Transmission reservoir / Hydraulic reservoir	
▲ Fluid-sample valves	
▲ Quick-service ports	
▲ Forestry limb risers (sweeps)	
Attachments	
▲ Counterweight, front, 109 kg (240 lb.)	
▲ Retrieval hitch with pin	
▲ Extended rigid drawbar with pin for pull-type implements	
▲ Drawbar, extended for winch (with or without fairlead)	
▲ Rear ripper, parallelogram, 3 shank, 5 pocket	
▲ Winch, John Deere 4000, power in/free spool out OR power out	
▲ Winch, John Deere 4000, low speed, power in/free spool out OR power out	
▲ 4-roller fairlead for winch	
▲ Root-rake blade attachment	

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Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions specified per ISO9249. No derating is required up to 3050-m (10,000 ft.) altitude. Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on a unit with standard equipment, rollover protective structure (ROPS), full fuel tank, and 79-kg (175 lb.) operator.

Additional equipment *(continued)*

Key: ● Standard ▲ Optional or special

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650 P-TIER Undercarriage		
▲		Front idler guards
●		Rear chain guides
▲		Center chain guides
●		Track adjuster relief valves
●		Maximum Life undercarriage system with SC-2™ bushings
▲		Extended Life undercarriage with SC-2 bushings
▲		Heavy-duty sealed and lubricated undercarriage
▲		Full-length rock guards
●		Double-flange rollers
XLT	LGP	650 P-Tier Shoes
●	▲	457-mm (18 in.) moderate service
▲	▲	508-mm (20 in.) moderate service with clipped corners
	▲	610-mm (24 in.) moderate service
	●	710-mm (28 in.) moderate service with clipped corners
Operator's Station / Electrical		
Canopy	Cab	
●	●	Retractable seat belts, 76 mm (3 in.) (conform to SAE J386)
●	●	Accessories: Convex wide-angle interior rearview mirror / Thigh cushions (2) / Cup holders (2)
●	●	Power port (cab includes power ports [2])
●	●	Dash-mounted storage compartment
	●	Air conditioner and heater, 24,000 Btu
	●	Dome light

		Operator's Station / Electrical <i>(continued)</i>
Canopy	Cab	
	●	Wipers, intermittent with washers: front window and left and right doors
	▲	Rear wiper and washer
▲	▲	Rearview camera
▲	▲	Cab step (bolt on)
▲	▲	Beacon light (roof mounted)
▲	▲	Full screens
▲	▲	Side screens
▲	▲	Rear window screen
▲	●	Under-seat heater
●	●	Lockable master electrical disconnect switch
●		Multifunction/multi-language LCD monitor: Analog display (fuel level, coolant temperature, and engine oil pressure) / Digital display (engine rpm, charge pressure, hours, diesel particulate filter (DPF)-soot level, and transmission direction/speed range)
▲	●	Multifunction/multi-language 8-inch touch-screen LCD monitor: Digital display (fuel level, coolant temperature, engine oil pressure, engine rpm, charge pressure, hours, DPF-soot level, transmission direction/speed range, clock engine hours, and slope control (if equipped))
●	●	Built-in diagnostics: Diagnostic-code details / Sensor values / Calibrations / Individual circuit tester

Operator's Station / Electrical <i>(continued)</i>		
Canopy	Cab	
●	●	Keyless start with multiple security modes
●	●	Battery, dual, 24 volts
	▲	External-mounted attachment mirror
●	●	JDLink™ wireless communication system (available in specific countries; see your dealer for details)
Trim Packages		
	●	Level 1: Black exhaust stack, halogen lights (cab front [4] and cab rear [2]), AM/FM/Weather Band (WB) radio with USB and auxiliary port, standard seat (fabric with heavy-duty air suspension), and manual HVAC temperature adjustment
	▲	Level 2: Chrome exhaust stack, LED lights (cab front [4], cab rear [4]), AM/FM/WB radio with Bluetooth®, remote-mounted USB, auxiliary port, and microphone, premium heated/ventilated seat (leather bolstered with heavy-duty air suspension), and automatic temperature controlled (ATC) HVAC system
●		Level 1: Black exhaust stack and halogen lights (cab front [4] and cab rear [2])
▲		Level 2: Chrome exhaust stack and LED lights (cab front [4], cab rear [4])

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