

655 / P

Crawler Loader



JOHN DEERE



SPEC'D FOR YOUR SUCCESS

Inspired by invaluable input from owners and operators who've put our equipment through its paces, the 655 P-Tier Crawler Loader provides the proven muscle and versatility you need to get the work done. This mid-size machine is loaded with productivity- and uptime-boosting features including choice of controls, smooth hydrostatics, no-sweat serviceability, and a spacious operator station packed with convenient creature comforts. And it's easy on fuel and your bottom line. Whether you're excavating, loading trucks, backfilling, or grading, the 655 P-Tier Crawler Loader is designed to meet the most demanding specifications — yours.

Comfort everywhere you look

Spacious cab features wide doorways and user-friendly pull-type latches to ease entry/exit from either side. Viscous cab mounts, rear acoustical glass, extensive insulation, and pressurization effectively isolate operators from vibration, noise, and dirt. Standard air conditioning and numerous directional vents keep the interior comfortable and tinted windows clear. Adjust the standard high-back air-suspension seat or deluxe heated and leather-bolstered seat for daylong comfort and support.

Built to run long

Heavy-duty undercarriage is sealed and lubricated, for maximum wear resistance. Simple-to-navigate LCD monitor displays diagnostic messages and solutions to keep you up and running. Swing-out side shields and tilt-out grille enable access to both sides of the coolers, for low-effort debris removal. Hydrostatic and hydraulic pressures can be read on the in-cab monitor, easing system-pressure checks.

Easy does it

Full-power turns, on-the-go counter-rotation, infinite speed control, and power management — state-of-the-art controls enable complete command of an arsenal of highly productive hydrostatic (HST) advantages. Choose joystick forward-neutral-reverse (F-N-R) or V-pattern transmission lever with steering pedals as well as single-lever joystick or two- or three-lever hydraulic controls to fit the operator's style.

Waste not, want not

Standard Eco mode automatically adjusts engine power and transmission settings based on load while maintaining ground speed, to optimize fuel economy without sacrificing productivity. Auto-idle helps save fuel by reducing engine speed when the crawler loader isn't moving and no functions are being activated. To further help conserve fuel, auto shutdown automatically turns the engine off after an operator-determined period of inactivity.



ER LOADER



SMOOTH
OPERATION

+



FUEL
EFFICIENT

Peak performance

Low-effort controls command the full-featured HST drivetrain, providing smooth, predictable response at all times, in all conditions. Total Machine Control (TMC) enables customized operating characteristics and responses, for one-of-a-kind control. Just set maximum desired ground speed, and the power-management system automatically maintains peak engine rpm and power efficiency without stalling or shifting.

On track in tight spaces

Constant power to both tracks allows heavy loads to be carried through turns and counter-rotations while in gear or neutral. Counter-rotating tracks boost maneuverability on crowded jobsites, a productivity advantage that also helps overcome heavy corner loads.

Imagine the possibilities

Infinitely variable speed range to 6.2 mph enables travel to be adapted to fit specific tasks, terrain conditions, and operator preferences.

Push-button easy

Control the throttle using buttons on the sealed-switch module — push the top button once to apply full throttle and the lower button once for low engine rpm. Press and hold either button for incremental adjustments.

Within easy sight

Standard rearview camera with large LCD color display in the cab provides the operator with visibility to the ripper and rear of the crawler loader while still focusing on the jobsite ahead.

Keep your cool

Quad-Cool™ places system components in a unique boxed configuration that's isolated from engine heat, boosting efficiency and durability.



655 P-TIER CRAWLER LOADER



**SEALED-SWITCH MODULE
INCLUDES PUSH-BUTTON
THROTTLE CONTROL**



The choice is yours

Choose between a general-purpose or a multipurpose bucket to best fit the application.

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.



655 P-TIER CRAWLER LOADER SPECIFICATIONS

Engine		655 P-TIER	
Manufacturer and Model	John Deere PowerTech™ PVS 6068		
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV		
Displacement	6.8 L (414 cu. in.)		
SAE Net Rated Power	116 kW (155 hp) at 1,700 rpm		
Net Peak Torque	689 Nm (508 ft.-lb.) at 1,400 rpm		
Aspiration	Turbocharged with charge-air cooler		
Air Cleaner	Dual-stage dry tube with tangential unloader		
Cooling			
Fan	Variable-speed suction fan with automatic reversing		
Engine Coolant Rating	−37 deg. C (−34 deg. F)		
Engine Radiator	10.2 fins per inch		
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 motor combination; ground-speed selection buttons on single-lever steering and direction 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	45 850 kPa (6,650 psi)		
Travel Speeds			
Forward and Reverse	10 km/h (6.2 mph)		
Maximum (optional)	10 km/h (6.2 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	Double-reduction, planetary final drives transfer torque loads over 3 gear sets		
Total Ratio	46.41 to 1		
Drawbar Pull			
Maximum	242 kN (54,500 lb.)		
At 1.9 km/h (1.2 mph)	134 kN (30,000 lb.)		
At 3.2 km/h (2.0 mph)	80.7 kN (18,100 lb.)		
Brakes	Decelerator/brake pedal; automatic power management with manual override for matching ground speed to available engine power		
Service Brakes	HST (dynamic) braking stops the machine whenever the direction-control lever is moved to neutral or whenever the decelerator is depressed to the end of travel		
Type	Hydraulic		
Parking Brakes	Exclusive safety feature engages wet, multiple-disc brakes whenever the engine stops, whenever the decelerator is depressed to the end of travel, or whenever the park-lock lever is placed in the upward position or the transmission-control lever is placed in the neutral position and motion is detected; machine cannot be driven with brake applied, reducing wear-out or need for adjustment; spring-applied, hydraulic release		
Hydraulics			
Type	Load sense, piston pump		
Pump Flow	189 L/m (50 gpm)		
System Relief Pressure	26 028 kPa (3,775 psi)		
Differential Pressure	1896 kPa (275 psi)		
Maximum Flow at Unloaded High Idle	197 L/m (52 gpm)		
Control	Dual-axis joystick with optional multipurpose bucket function, or 2- or 3-lever stackable		
Cylinders			
Heat-treated, chrome-plated, polished cylinder rods; hardened steel pivot pins with replaceable bushings			
	Bore	Rod Diameter	Stroke
Lift Cylinders	125 mm (4.9 in.)	70 mm (2.8 in.)	757 mm (29.8 in.)
Bucket-Dump Cylinder	160 mm (6.3 in.)	95 mm (3.7 in.)	493 mm (19.4 in.)

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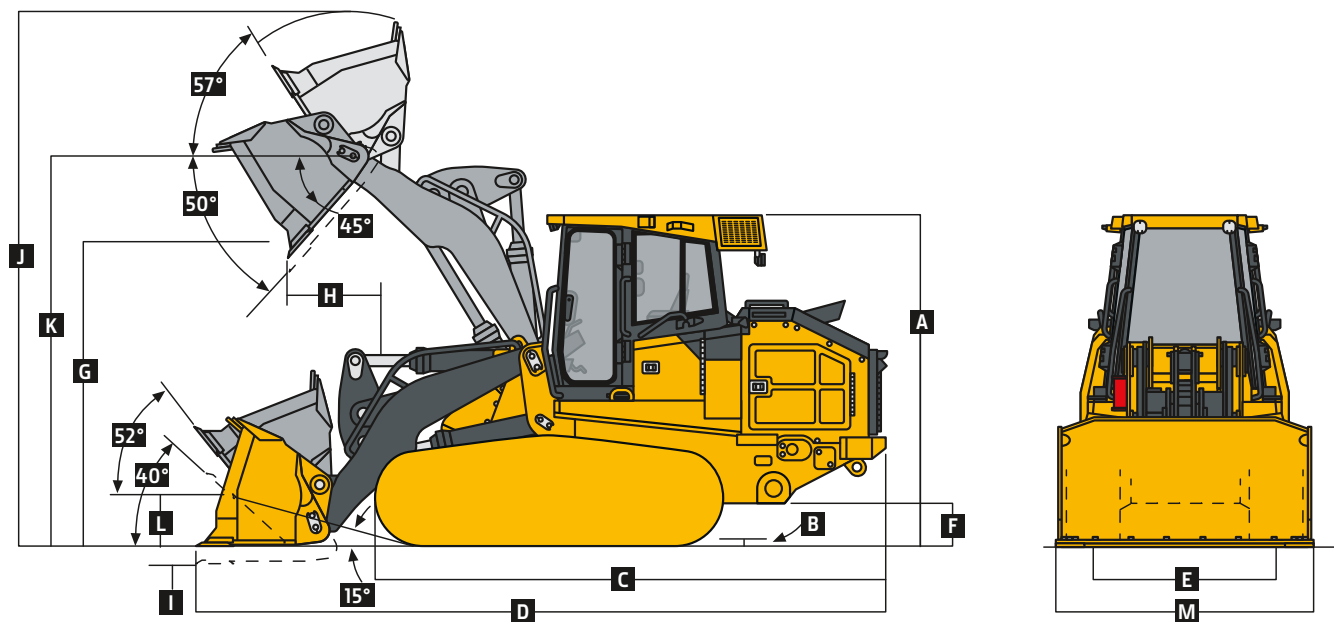
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Electrical		655 P-TIER				
Voltage	24 volts					
Number of Batteries (12 volt)	2					
Battery Capacity	950 CCA					
Reserve Capacity	190 min.					
Alternator Rating	100 amp					
Lights	Halogen cab-mounted forward facing (2), rear mounted (2), and engine compartment (1)					
Undercarriage						
Tracks	Track frame with front and rear track guides and sprocket guards; John Deere undercarriage features deep-heat-treated, sealed, and lubricated track links and through-hardened, sealed, and lubricated rollers for maximum wear resistance; sprockets are segmented					
Track Gauge	1740 mm (68.5 in.)					
Grouser Width	510 mm (20 in.)					
Chain	Sealed and lubricated					
Shoes, Each Side	38					
Track Rollers, Each Side	6					
Track Length on Ground	2414 mm (95 in.)					
Ground Contact Area						
510-mm (20 in.) Grouser Width	24 622 cm ² (3,816 sq. in.)					
560-mm (22 in.) Grouser Width	27 036 cm ² (4,191 sq. in.)					
Ground Pressure	<i>General-Purpose Bucket</i>		<i>Multipurpose Bucket</i>			
510-mm (20 in.) Grouser Width	73.7 kPa (10.7 psi)		74.7 kPa (10.8 psi)			
560-mm (22 in.) Grouser Width	67.4 kPa (9.8 psi)		68.4 kPa (9.9 psi)			
Track Pitch	190 mm (7.5 in.)					
Oscillation at Front Roller	±35 mm (±1.4 in.)					
Buckets (with teeth)						
	<i>Width</i>	<i>Capacity Heaped</i>	<i>Bucket Weight</i>	<i>Breakout Force</i>	<i>Static Tipping Load</i>	<i>Maximum Clamping Force</i>
General Purpose	2470 mm (97 in.) (8 ft. 1 in.)	1.9 m ³ (2.4 cu. yd.)	1208 kg (2,665 lb.)	148 kN (33,271 lbf)	12 443 kg (27,432 lb.)	N/A
Multipurpose	2470 mm (97 in.) (8 ft. 1 in.)	1.6 m ³ (2.1 cu. yd.)	1480 kg (3,262 lb.)	148 kN (33,271 lbf)	12 184 kg (26,861 lb.)	8514 kg (18,731 lbf)
Operator Station						
ROPS (ISO 3471 – 2008)						
Serviceability						
Refill Capacities						
Fuel Tank With Lockable Cap	263 L (69.5 gal.)					
Cooling System With Recovery Tank	30.3 L (8.0 gal.)					
Engine Oil With Filter	24.6 L (6.5 gal.)					
Transmission Reservoir With Filter	66.6 L (17.6 gal.)					
Hydraulic Reservoir and Filter	121.5 L (32.1 gal.)					
Diesel Exhaust Fluid (DEF) Reservoir	8.5 L (2.2 gal.)					
Final Drive						
Inner Final Drive (each)	8.0 L (2.1 gal.)					
Outer Planetary (each)	15.6 L (4.1 gal.)					

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655 P-TIER

Operating Weights		655 P-TIER
With standard equipment, cab with pressurizer and heater/air conditioner, general-purpose bucket with bolt-on teeth and edge segments, full fuel tank, and 79-kg (175 lb.) operator		
Base Weight		18 422 kg (40,614 lb.)
Optional Components		
Cab With Pressurizer and Heater/Air Conditioner		In base
Lift-Cylinder Guards		18.4 kg (41 lb.)
Full-Length Rock Guards		180 kg (398 lb.)
Final-Drive Trash Guards		79 kg (155 lb.)
Clam-Cylinder Protection for Multi-purpose Bucket		50 kg (110 lb.)
Retrieval Hitch		62 kg (136 lb.)
Double-Bar Grousers		
510 mm (20 in.)		In base
560 mm (22 in.)		120 kg (265 lb.)
Machine Dimensions		
A Overall Height		3120 mm (10 ft. 3 in.)
B Tread Depth With Double-Bar Grouser		35 mm (1.4 in.)
C Length to Front of Track		4920 mm (16 ft. 2 in.)
D Overall Length With Bucket and Teeth		
General Purpose		6735 mm (265 in.) (22 ft. 1.2 in.)
Multipurpose		6635 mm (261 in.) (21 ft. 9 in.)
E Track Gauge		1740 mm (5 ft. 9 in.)
F Ground Clearance (excludes grouser height)		395 mm (15.6 in.)

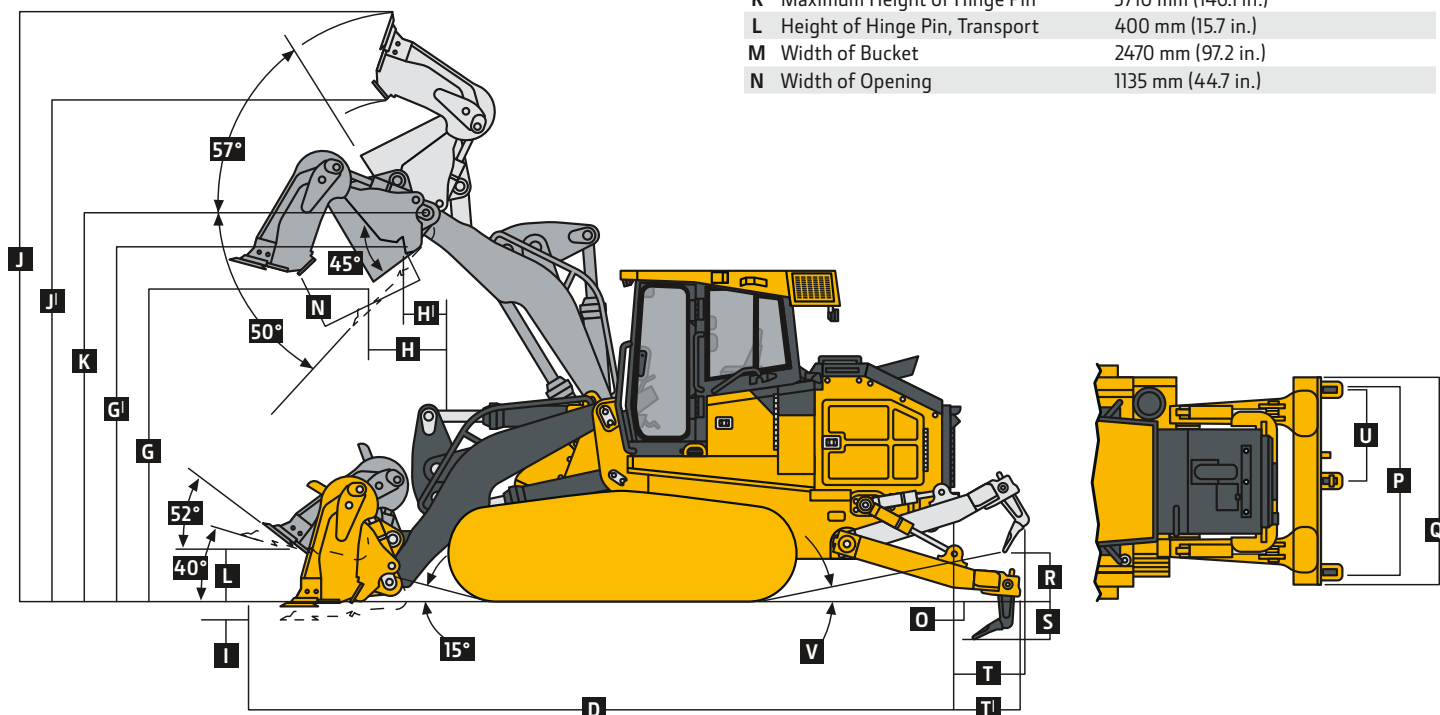


655 P-TIER CRAWLER LOADER WITH GENERAL-PURPOSE BUCKET

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Machine Dimensions (continued)	655 P-TIER
Bucket Type	General-Purpose Bucket
G Dumping Height at 45 deg.	2665 mm (105 in.)
H Reach at 45 deg.	1036 mm (41 in.)
I Maximum Digging Depth Below Grade	152 mm (6 in.)
J Maximum Operating Height	4920 mm (193.7 in.)
K Maximum Height of Hinge Pin	3710 mm (146.1 in.)
L Height of Hinge Pin, Transport	400 mm (15.7 in.)
M Width of Bucket	2470 mm (97 in.)

Machine Dimensions (continued)	655 P-TIER
Bucket Type	Multipurpose Bucket
G Dumping Height at 45 deg. (bucket)	2700 mm (106.3 in.)
G' Dumping Height at 45 deg. (blade)	3325 mm (130.9 in.)
H Reach at 45 deg. (bucket)	930 mm (36.6 in.)
H' Reach at 45 deg. (blade)	380 mm (15 in.)
I Maximum Digging Depth Below Grade	205 mm (8.1 in.)
J Maximum Operating Height (open)	5700 mm (224.4 in.)
J' Maximum Operating Height (closed)	4920 mm (193.7 in.)
K Maximum Height of Hinge Pin	3710 mm (146.1 in.)
L Height of Hinge Pin, Transport	400 mm (15.7 in.)
M Width of Bucket	2470 mm (97.2 in.)
N Width of Opening	1135 mm (44.7 in.)



655 P-TIER CRAWLER LOADER WITH MULTIPURPOSE BUCKET AND 3-SHANK RIGID-TYPE RADIAL RIPPER WITH ESCO® RIPPER TIPS

Rear Ripper	655 P-TIER
Multi-shank (3) radial ripper with ESCO ripper tips	
Ripper Weight	845 kg (1,863 lb.)
O Ground Clearance Below Toolbar	215 mm (8.5 in.)
P Ripping Width	1740 mm (5 ft. 9 in.)
Q Toolbar Width	1941 mm (76.4 in.)
R Lifting Height	740 mm (29.1 in.)
S Ripping Depth	260 mm (10.2 in.)
T Additional Overall Length, Raised	665 mm (26.2 in.)
T' Additional Overall Length, Lowered	685 mm (27 in.)
U Distance Between Teeth	870 mm (34.3 in.)
V Approach Angle, Ripper Raised	15 deg.

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Additional equipment

Key: ● Standard ▲ Optional or special See your John Deere dealer for further information.

655		655	
P-TIER	Engine	P-TIER	Transmission <i>(continued)</i>
●	Meets EPA Final Tier 4/EU Stage IV emissions	●	Sealed dedicated transmission reservoir and filtration system separate from hydraulic system
●	Electronic control with automatic engine protection	●	Single-lever joystick direction, speed, and steering control
●	Programmable auto engine shutdown	▲	V-pattern direction and speed control with pedal steering
●	Dual-element dry-tube air cleaner with tangential unloader valve	▲	Final-drive seal guards (for trash use)
●	Environmental service drains		Hydraulic System
●	Engine glow plug starting system	●	2-function hydraulics – joystick or dual lever
●	Auto turbo cool-down timer	▲	3-function hydraulics – joystick or 3 lever
●	Wet-sleeve cylinder liners	▲	Rear hydraulics with rear plumbing
●	Eco mode	●	Sealed dedicated hydraulic reservoir and filtration system separate from transmission system
●	Automatic, on-the-fly exhaust filter cleaning	●	2,000-hour vertical spin-on hydraulic filter
●	Fuel filters with automatic electronic priming		Mainframe, Access Panels
●	100-amp alternator	●	Tilt operator station service access
▲	120-volt engine block heater	●	Integral bottom protection
▲	Severe-duty 400-mL fuel filter and water separator	●	Hinged bottom-access covers (bolt-on)
▲	Rotary ejector engine air precleaner	●	Vandal protection: Engine access door / Side tank access doors / Fuel tank / Instrument panel / Transmission reservoir / Hydraulic reservoir
	Cooling	●	Maintenance-free center crossbar pivot
●	Tilt-out cooling fan, hydraulically driven, variable-speed suction type		Loader
▲	Automatic, programmable reversing fan	●	Return-to-dig feature
●	Engine coolant radiator (10.2 fins per in.)	●	Bucket-level indicator
●	Hydrostatic cooler (oil/air – 10.2 fins per in.)	●	Bucket float
●	Hydraulic cooler (oil/air – 10.2 fins per in.)	●	Boom height-control feature
●	Enclosed safety fan guard (conforms to SAE J1308 and ISO3457)	●	Integrated front tow hook
●	Perforated engine and hood side shields	●	Loader boom service lock
●	Heavy-duty, trash-resistant radiator and high-ambient cooling package		Undercarriage
●	Tilt-out bar-type grille	●	Oscillating undercarriage with remote lube bank
●	Extreme-duty grille	●	Full-length, smooth-surface track frame covers
	Transmission	●	Guides, front and rear, with bolt-on wear strips
●	Automatic transmission derating for exceeded system temperatures	●	Segmented sprockets
●	Diagnostic test ports	●	Double-flange rollers
●	Environmental service drains		
●	2,000-hour vertical spin-on transmission filter		

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Additional equipment *(continued)*

Key: ● Standard ▲ Optional or special See your John Deere dealer for further information.

655		655	
P-TIER	Undercarriage <i>(continued)</i>	P-TIER	Operator's Station / Electrical <i>(continued)</i>
▲	Final-drive seal trash guards	●	Multifunction/multi-language LCD monitor – Analog display (fuel level, coolant temperature, engine oil pressure, and voltage) and digital display (engine rpm, charge pressure, hours, diesel particulate filter [DPF] soot level and transmission direction/speed range)
▲	Extended-life undercarriage with SC-2™ bushings	●	Retractable seat belt, 76 mm (3 in.) (conforms to SAE J386)
●	Heavy-duty sealed and lubricated undercarriage	●	Convex interior rearview mirror (conforms to SAE J985)
▲	Full-length rock guards	●	12-volt power port
●	510-mm (20 in.) closed-center double-bar grousers	▲	2nd console-mounted power port, 12 volts
▲	560-mm (22 in.) closed-center double-bar grousers	●	Air conditioner, 24,000 Btu
▲	510-mm (20 in.) open-center double-bar grousers with trapezoidal holes	●	Tinted glass
▲	560-mm (22 in.) open-center double-bar grousers with trapezoidal holes	●	Dome light
Attachments		●	Heater (roof mount)
▲	1.9-m³ (2.4 cu. yd.) general-purpose bucket	●	Air-ride fabric seat
▲	1.6-m³ (2.1 cu. yd.) multipurpose bucket	▲	Deluxe heated and leather-bolstered air-ride seat
▲	Bolt-on cutting edges	●	Under-seat heater
▲	Bolt-on bucket teeth	●	Wipers (intermittent plus 2 speeds) and washers – front and rear windows
▲	Bolt-on edge segments and teeth	●	AM/FM/Weather-Band (WB) radio and clock
▲	Bolt-on rear hitch hoop	●	Rearview camera with dedicated color monitor
▲	Radial rear ripper, 3 shank	●	Lockable master electrical disconnect switch
▲	Operator-protection package	●	Keyless start with multiple security modes
▲	Tilt cylinder protection	●	Lights, roof mounted (2) front, rear mounted (2)
▲	Lift cylinder line protection	●	Engine compartment light
▲	Multipurpose bucket cylinder protection	▲	Work lights, roof mounted (2) additional front
▲	Waste-handler package	●	JDLink™ wireless communication system (available in specific countries; see your dealer for details)
▲	Limb risers	▲	Fluid-sample ports (engine oil, coolant, and hydraulic and hydrostatic oil)
▲	Cab screens	▲	Quick-service ports (engine oil, coolant, and hydraulic and hydrostatic oil)
Operator's Station / Electrical		▲	Polycarbonate front windshield
●	Electronic monitoring system with audible and visual warnings for engine oil temperature, engine oil pressure, hydraulic oil temperature, transmission oil temperature, and transmission charge pressure		
●	Built-in diagnostics – Diagnostic-code details, sensor values, calibrations, and individual circuit tester		

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MR655PAU (25-10)



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