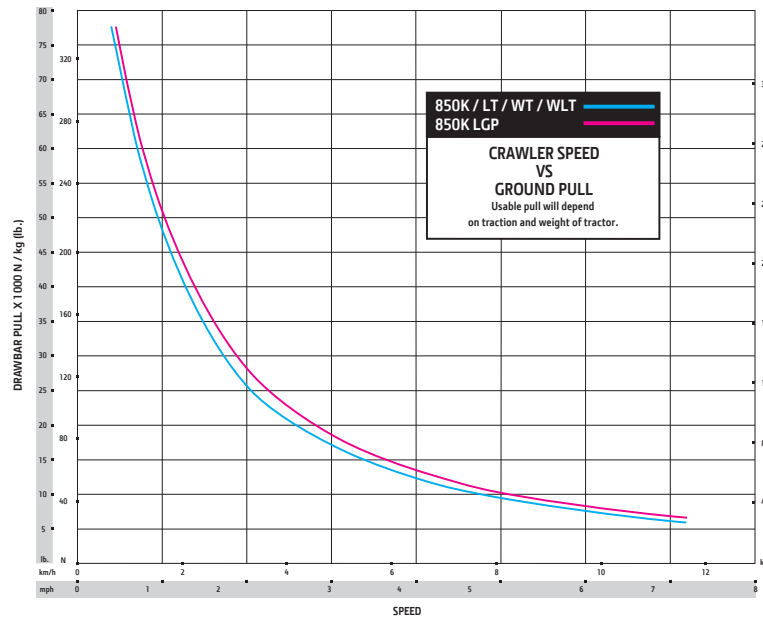


# 850K WH

Engine	850K WLT / 850K LGP		850K WT / 850K LGP	
	<b>Power-Angle-Tilt (PAT) Blade</b>		<b>Outside Dozer (OSD) Blade</b>	
Manufacturer and Model	John Deere PowerTech™ PVX 6068		John Deere PowerTech PVX 6068	
Non-Road Emission Standards	EPA Interim Tier 4/EU Stage IIIB		EPA Interim Tier 4/EU Stage IIIB	
Displacement	6.8 L (414 cu. in.)		6.8 L (414 cu. in.)	
SAE Net Rated Power	152 kW (205 hp) at 1,800 rpm		152 kW (205 hp) at 1,800 rpm	
Net Peak Torque	915 Nm (675 lb.-ft.) at 1,500 rpm		915 Nm (675 lb.-ft.) at 1,500 rpm	
Aspiration	Turbocharged with charge air cooler		Turbocharged with charge air cooler	
Air Cleaner	Vacuum-aspirated dual-element dry canister		Vacuum-aspirated dual-element dry canister	
Slope Operation, Maximum Angle	45 deg.		45 deg.	
<b>Cooling</b>				
Variable-speed suction fan with automatic reversing				
Engine Coolant Rating	-37 deg. C (-34 deg. F)		-37 deg. C (-34 deg. F)	
Engine Radiator	10 fins per inch (25.4 mm)		10 fins per inch (25.4 mm)	
<b>Powertrain</b>	<b>850K WLT</b>	<b>850K LGP</b>	<b>850K WT</b>	<b>850K LGP</b>
<b>Transmission</b>	Automatic, dual-path, hydrostatic 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 80%, 100%, 115%, or 130% of forward ground speed; decelerator pedal controls ground speed to stop			
System Relief Pressure	45,850 kPa (6650 psi)	45,850 kPa (6650 psi)	45,850 kPa (6650 psi)	45,850 kPa (6650 psi)
Travel Speeds				
Forward and Reverse	9.7 km/h (6.0 mph)	9.7 km/h (6.0 mph)	9.7 km/h (6.0 mph)	9.7 km/h (6.0 mph)
Maximum (optional)	11.0 km/h (6.8 mph)	11.0 km/h (6.8 mph)	11.0 km/h (6.8 mph)	11.0 km/h (6.8 mph)
<b>Steering</b>	Single-lever steering, speed, direction control, and counterrotation; full power turns and infinitely variable track speeds provide unlimited maneuverability and optimum control; hydrostatic steering eliminates steering clutches and brakes			
<b>Final Drives</b>	Double-reduction, planetary final drives transfer torque loads over 3 gear sets; mounted independently of track frames and dozer push frames for isolation from shock loads			
Total Ratio	44.7483 to 1	44.7483 to 1	44.7483 to 1	44.7483 to 1
<b>Drawbar Pull</b>				
Maximum	344 kN (77,300 lb.)	344 kN (77,300 lb.)	344 kN (77,300 lb.)	344 kN (77,300 lb.)
At 1.9 km/h (1.2 mph)	167 kN (37,500 lb.)	178 kN (40,000 lb.)	167 kN (37,500 lb.)	178 kN (40,000 lb.)
At 3.2 km/h (2.0 mph)	120 kN (27,000 lb.)	131 kN (29,500 lb.)	120 kN (27,000 lb.)	131 kN (29,500 lb.)



**Service Brakes** Hydrostatic (dynamic) braking stops machine when the direction/steering control lever is moved to neutral or the decelerator is depressed to the end of travel

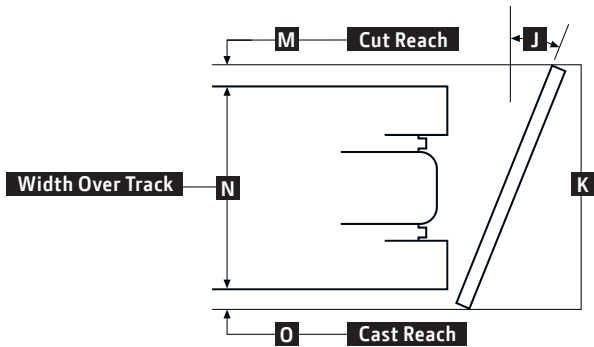
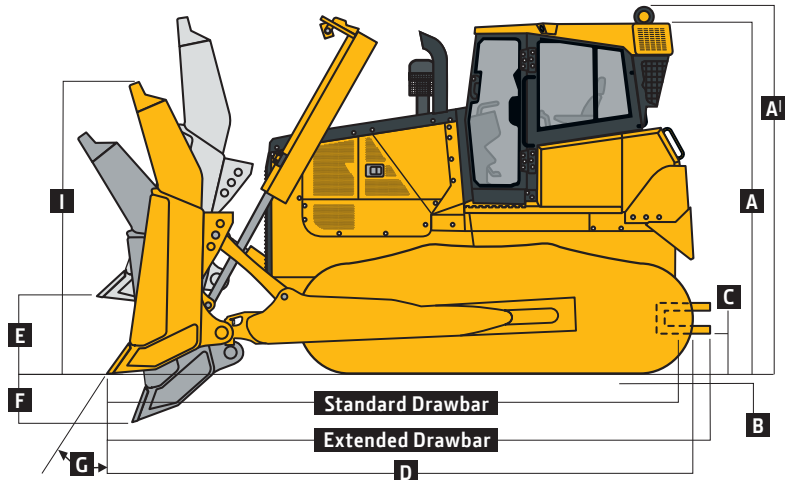
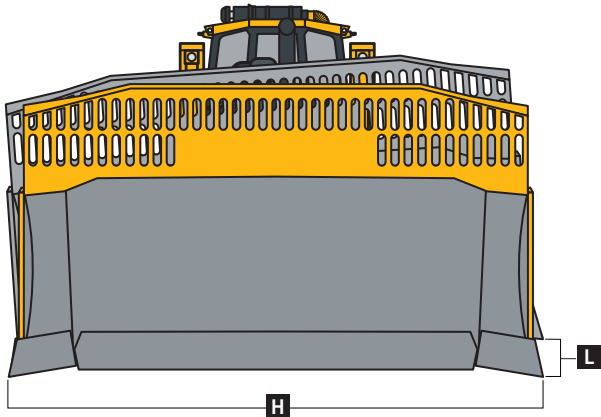
**Parking Brakes** Exclusive safety feature engages wet, multiple-disc brakes whenever the engine stops, the decelerator is depressed to the end of travel, or the park lock lever is placed in the start or neutral positions and motion is detected; machine cannot be driven with brake applied, reducing wear-out or need for adjustment; spring-applied, hydraulic release



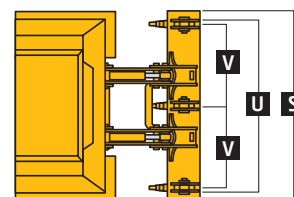
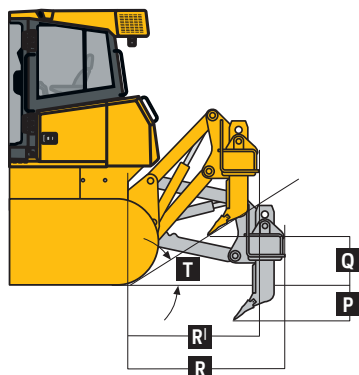
Hydraulics	850K WLT / 850K LGP		850K WT / 850K LGP	
	<i>Power-Angle-Tilt (PAT) Blade</i>		<i>Outside Dozer (OSD) Blade</i>	
Type	Load-sense hydraulic system with variable-displacement piston pump			
Pump Displacement	74 cc		74 cc	
Pump Capacity	174 L/m (46 gpm)		174 L/m (46 gpm)	
System Relief Pressure	24 993 kPa (3,625 psi)		24 993 kPa (3,625 psi)	
Differential Pressure	1896 kPa (275 psi)		1896 kPa (275 psi)	
Maximum Flow at Unloaded High Idle	163 L/m (43 gpm)		163 L/m (43 gpm)	
Control	3-function hydraulic-pilot T-bar joystick with push-button angle function		2-function hydraulic-pilot T-bar joystick	
Electrical				
Voltage	24 volts		24 volts	
Battery Capacity	950 CCA		950 CCA	
Reserve Capacity	190 min.		190 min.	
Alternator Rating				
Cab	130 amp		130 amp	
Canopy	100 amp		100 amp	
Lights	Grille mounted (2), rear mounted (2), engine compartment (1), and rear reflectors (2)			
Undercarriage	850K WLT	850K LGP	850K WT	850K LGP
<b>Tracks</b>	Track frame with front and rear track guides and sprocket guard; John Deere Dura-Trax™ features deep-heat-treated, sealed, and lubricated track links and through-hardened, sealed, and lubricated rollers for maximum wear resistance; sprockets are segmented; extreme-duty shoes are available (on some models) for severe applications			
Track Gauge	2235 mm (88 in.)	2388 mm (94 in.)	2032 mm (80 in.)	2184 mm (86 in.)
Grouser Width	762 mm (30 in.)	914 mm (36 in.)	762 mm (30 in.)	914 mm (36 in.)
Chain	Sealed and lubricated	Sealed and lubricated	Sealed and lubricated	Sealed and lubricated
Shoes, Each Side	45	45	40	45
Track Rollers, Each Side	8	8	7	8
Track Length On Ground	3284 mm (129 in.)	3284 mm (129 in.)	2769 mm (109 in.)	3284 mm (129 in.)
Ground Contact Area	50 048 cm <sup>2</sup> (7,757 sq. in.)	60 058 cm <sup>2</sup> (9,309 sq. in.)	42 200 cm <sup>2</sup> (6,541 sq. in.)	60 058 cm <sup>2</sup> (9,309 sq. in.)
Ground Pressure	42.9 kPa (6.22 psi)	36.8 kPa (5.33 psi)	49.8 kPa (7.22 psi)	38.1 kPa (5.52 psi)
Track Pitch	203 mm (8 in.)	203 mm (8 in.)	203 mm (8 in.)	203 mm (8 in.)
Oscillation at Front Roller	± 166.5 mm (± 6.5 in.)	± 168 mm (± 6.6 in.)	± 114 mm (± 4.5 in.)	± 168 mm (± 6.6 in.)
Blades				
Weights include straight end bits				
Straight				
Length	4013 mm (158 in.) (13 ft. 2 in.)	4267 mm (168 in.) (14 ft. 0 in.)	—	—
Capacity				
With Optional Trash Rack	9.7 m <sup>3</sup> (12.7 cu. yd.)	9.9 m <sup>3</sup> (12.9 cu. yd.)	—	—
Without Optional Trash Rack	4.3 m <sup>3</sup> (5.6 cu. yd.)	4.5 m <sup>3</sup> (5.9 cu. yd.)	—	—
Weight				
With Optional Trash Rack	1528 kg (3,369 lb.)	1607 kg (3,543 lb.)	—	—
Without Optional Trash Rack	1330 kg (2,932 lb.)	1397 kg (3,080 lb.)	—	—
Semi-U				
Length	—	—	3556 mm (140 in.) (11 ft. 8 in.)	3861 mm (152 in.) (12 ft. 8 in.)
Capacity				
With Optional Trash Rack	—	—	11.1 m <sup>3</sup> (14.5 cu. yd.)	11.7 m <sup>3</sup> (15.2 cu. yd.)
Without Optional Trash Rack	—	—	5.8 m <sup>3</sup> (7.6 cu. yd.)	6.0 m <sup>3</sup> (7.8 cu. yd.)
Weight				
With Optional Trash Rack	—	—	1774 kg (3,911 lb.)	1867 kg (4,116 lb.)
Without Optional Trash Rack	—	—	1567 kg (3,455 lb.)	1641 kg (3,612 lb.)
Push-Beam/C-Frame Assembly Weight (without blade)	1647 kg (3,631 lb.)	1647 kg (3,631 lb.)	1889 kg (4,156 lb.)	2101 kg (4,622 lb.)
Operator Station	850K WLT / 850K LGP		850K WT / 850K LGP	
ROPS (ISO 3471 – 2008) and FOPS (ISO 3449 – 2005)				
Serviceability				
Refill Capacities				
Fuel Tank with Lockable Cap	356 L (94 gal.)		356 L (94 gal.)	
Cooling System with Recovery Tank	35 L (9.2 gal.)		35 L (9.2 gal.)	
Engine Oil with Filter	24.6 L (6.5 gal.)		24.6 L (6.5 gal.)	
Transmission Reservoir with Filter	106 L (28 gal.)		106 L (28 gal.)	
Hydraulic Reservoir and Filter	106 L (28 gal.)		106 L (28 gal.)	

Operating Weights	850K WLT	850K LGP	850K WT	850K LGP
	<b>Power-Angle-Tilt (PAT) Blade</b>		<b>Outside Dozer (OSD) Blade</b>	
<i>Base Weight (with standard equipment, rollover protective structures, full fuel tank, 79-kg (175-lb.) operator, and waste-handler package, plus select optional equipment marked with *)</i>	21 869 kg (48,213 lb.)	22 523 kg (49,655 lb.)	21 436 kg (47,258 lb.)	23 316 kg (51,403 lb.)
<b>Optional Components</b>				
Cab with Pressurizer and Heater/ Air Conditioner	337 kg (743 lb.)*	337 kg (743 lb.)*	337 kg (743 lb.)*	337 kg (743 lb.)*
Heater (ROPS canopy)	39 kg (85 lb.)	39 kg (85 lb.)	39 kg (85 lb.)	39 kg (85 lb.)
<b>Front and Door Screens</b>				
ROPS Canopy	84 kg (186 lb.)	84 kg (186 lb.)	84 kg (186 lb.)	84 kg (186 lb.)
Cab with Air Conditioner	79 kg (175 lb.)	79 kg (175 lb.)	79 kg (175 lb.)	79 kg (175 lb.)
<b>Rear Screen</b>				
ROPS Canopy	23 kg (50 lb.)	23 kg (50 lb.)	23 kg (50 lb.)	23 kg (50 lb.)
Cab with Air Conditioner	34 kg (75 lb.)	34 kg (75 lb.)	34 kg (75 lb.)	34 kg (75 lb.)
<b>Side Screens</b>				
ROPS Canopy	44 kg (98 lb.)	44 kg (98 lb.)	44 kg (98 lb.)	44 kg (98 lb.)
Cab with Air Conditioner	54 kg (120 lb.)	54 kg (120 lb.)	54 kg (120 lb.)	54 kg (120 lb.)
Condenser Guard (cab with air conditioner)	55 kg (121 lb.)	55 kg (121 lb.)	55 kg (121 lb.)	55 kg (121 lb.)
<b>Limb Risers (ROPS canopy and cab)</b>				
Heavy-Duty Grille	35 kg (78 lb.)*	35 kg (78 lb.)*	35 kg (78 lb.)*	35 kg (78 lb.)*
Lift-Cylinder Guards	42 kg (93 lb.)*	42 kg (93 lb.)*	80 kg (176 lb.)*	80 kg (176 lb.)*
Tank Guards	323 kg (712 lb.)*	323 kg (712 lb.)*	323 kg (712 lb.)*	323 kg (712 lb.)*
<b>Counterweight</b>				
Front	397 kg (875 lb.)	397 kg (875 lb.)	397 kg (875 lb.)	397 kg (875 lb.)
Rear	449 kg (990 lb.)	449 kg (990 lb.)	449 kg (990 lb.)	449 kg (990 lb.)
Retrieval Hitch	52 kg (114 lb.)	52 kg (114 lb.)	52 kg (114 lb.)	52 kg (114 lb.)
Drawbar, Extended Rigid	130 kg (286 lb.)	130 kg (286 lb.)	130 kg (286 lb.)	130 kg (286 lb.)
Blade Brush Guard	87 kg (192 lb.)	87 kg (192 lb.)	87 kg (192 lb.)	87 kg (192 lb.)
Blade Trash Rack	198 kg (436 lb.)*	210 kg (462 lb.)*	207 kg (455 lb.)*	226 kg (498 lb.)*
Full-Length Rock Guards	242 kg (534 lb.)	242 kg (534 lb.)	222 kg (490 lb.)	242 kg (534 lb.)
Final-Drive Trash Guards	70 kg (155 lb.)*	70 kg (155 lb.)*	70 kg (155 lb.)*	70 kg (155 lb.)*
<b>Striker Bars</b>				
Front	73 kg (160 lb.)	73 kg (160 lb.)	111 kg (245 lb.)	147 kg (325 lb.)
Rear	78 kg (171 lb.)	78 kg (171 lb.)	166 kg (366 lb.)	78 kg (171 lb.)
<b>Pre-Cleaner</b>				
Powered Cab Air	21 kg (47 lb.)*	21 kg (47 lb.)*	21 kg (47 lb.)*	21 kg (47 lb.)*
Rotary Ejector Engine Air	6 kg (13 lb.)*	6 kg (13 lb.)*	6 kg (13 lb.)*	6 kg (13 lb.)*
<b>Track Shoes</b>				
560-mm (22 in.) Extreme-Duty	- 684 kg (- 1,507 lb.)	—	- 608 kg (- 1,340 lb.)	—
610-mm (24 in.) Moderate-Duty	—	—	—	—
610-mm (24 in.) Extreme-Duty	- 513 kg (- 1,131 lb.)	—	- 456 kg (- 1,005 lb.)	—
760-mm (30 in.) Moderate-Duty	—	—	—	—
760-mm (30 in.) Extreme-Duty	In base	- 515 kg (-1,136 lb.)	In base	- 514 kg (-1,133 lb.)
910-mm (36 in.) Moderate-Duty	—	—	—	—
910-mm (36 in.) Extreme-Duty	—	In base	—	In base
Waste-Handler Package Plus Select Optional Equipment Marked With *	1479 kg (3,254 lb.)	1578 kg (3,472 lb.)	1477 kg (3,250 lb.)	1632 kg (3,591 lb.)
<b>Machine Dimensions</b>				
<b>A</b> Overall Height to Roof	3161 mm (10 ft. 4.5 in.)	3161 mm (10 ft. 4.5 in.)	3161 mm (10 ft. 4.5 in.)	3161 mm (10 ft. 4.5 in.)
<b>A<sup>1</sup></b> Overall Height with Optional Cab Air Pre-cleaner	3457 mm (11 ft. 4.0 in.)	3457 mm (11 ft. 4.0 in.)	3457 mm (11 ft. 4.0 in.)	3457 mm (11 ft. 4.0 in.)
<b>B</b> Tread Depth with Single-Bar Grouser				
Moderate Duty	66 mm (2.6 in.)	66 mm (2.6 in.)	66 mm (2.6 in.)	66 mm (2.6 in.)
Extreme Duty	71 mm (2.8 in.)	71 mm (2.8 in.)	71 mm (2.8 in.)	71 mm (2.8 in.)
<b>C</b> Ground Clearance in Dirt	409 mm (16.1 in.)	409 mm (16.1 in.)	409 mm (16.1 in.)	409 mm (16.1 in.)
<b>D</b> Overall Length	5740 mm (226 in.) (18 ft. 10 in.)	5740 mm (226 in.) (18 ft. 10 in.)	5384 mm (212 in.) (17 ft. 8 in.)	5940 mm (234 in.) (19 ft. 6 in.)
<b>E</b> Blade Lift Height	1072 mm (42 in.)	1072 mm (42 in.)	1151 mm (45 in.)	1151 mm (45 in.)
<b>F</b> Blade Digging Depth	704 mm (28 in.)	704 mm (28 in.)	599 mm (24 in.)	599 mm (24 in.)
<b>G</b> Blade Cutting-Edge Angle, Adjustable	55.1 to 60.2 deg.	55.1 to 60.2 deg.	51.5 to 61.0 deg.	51.5 to 61.0 deg.

Machine Dimensions <i>(continued)</i>	850K WLT <i>Power-Angle-Tilt (PAT) Blade</i>	850K LGP	850K WT <i>Outside Dozer (OSD) Blade</i>	850K LGP
<b>H</b> Blade Width	4013 mm (158 in.) (13 ft. 2 in.)	4267 mm (168 in.) (14 ft. 0 in.)	3556 mm (140 in.) (11 ft. 8 in.)	3861 mm (152 in.) (12 ft. 8 in.)
<b>I</b> Blade Height	1829 mm (72 in.) (6 ft. 0 in.)	1829 mm (72 in.) (6 ft. 0 in.)	1981 mm (78 in.) (6 ft. 6 in.)	1930 mm (76 in.) (6 ft. 4 in.)
<b>J</b> Blade Angle	23.8 deg.	23.8 deg.	—	—
<b>K</b> Overall Width with Blade Angled	3658 mm (144 in.) (12 ft. 0 in.)	3901 mm (154 in.) (12 ft. 10 in.)	—	—
<b>L</b> Blade Tilt	533 mm (21 in.) (1 ft. 9 in.)	572 mm (23 in.) (1 ft. 11 in.)	753 mm (30 in.) (2 ft. 6 in.)	853 mm (34 in.) (2 ft. 10 in.)
<b>M</b> Cut Reach	145 mm (5.7 in.)	109 mm (4.3 in.)	—	—
<b>N</b> Width Over Track	2997 mm (118 in.) (9 ft. 10 in.)	3302 mm (130 in.) (10 ft. 10 in.)	2794 mm (110 in.) (9 ft. 2 in.)	3099 mm (122 in.) (10 ft. 2 in.)
<b>O</b> Cast Reach	272 mm (10.7 in.)	234 mm (9.2 in.)	—	—



Rear Ripper	850K WLT / 850K LGP <i>Power-Angle-Tilt (PAT) Blade</i>	850K WT / 850K LGP <i>Outside Dozer (OSD) Blade</i>
Multi-shank (3) parallelogram ripper with hydraulic pitch adjustment and ESCO ripper tips		
Weight	2032 kg (4,480 lb.)	2032 kg (4,480 lb.)
<b>P</b> Maximum Penetration	724 mm (28.5 in.)	724 mm (28.5 in.)
<b>Q</b> Maximum Clearance Under Tip	610 mm (24 in.)	610 mm (24 in.)
<b>R</b> Overall Length, Lowered Position	1626 mm (64 in.) (5 ft. 4 in.)	1626 mm (64 in.) (5 ft. 4 in.)
<b>R'</b> Overall Length, Raised Position	1525 mm (60 in.) (5 ft. 0 in.)	1525 mm (60 in.) (5 ft. 0 in.)
<b>S</b> Overall Beam Width	2400 mm (7 ft. 10 in.)	2400 mm (7 ft. 10 in.)
<b>T</b> Slope Angle (full raise)	24 deg.	24 deg.
<b>U</b> Ripping Width	2146 mm (7 ft. 1 in.)	2146 mm (7 ft. 1 in.)
<b>V</b> Distance Between Shanks	1041 mm (41 in.) (3 ft. 5 in.)	1041 mm (41 in.) (3 ft. 5 in.)



# Additional equipment

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

850K	
WH	Engine
●	Meets EPA Interim Tier 4/EU Stage IIIB emissions
●	Electronic control with automatic engine protection
●	Vacuum-aspirated dual-element dry canister
●	Exhaust filter under hood with vertical stack
●	Engine glow plug starting system
▲	Chrome exhaust
▲	Severe-duty 400ml fuel filter and heated water separator
●	Rotary ejector engine air precleaner
▲	Engine block heater
Cooling	
●	Tilt-out suction-type cooling fan
●	Programmable fan reversal with manual override
●	Engine coolant radiator, coolant/air, 10 fins per inch (25.4 mm)
●	Hydrostatic cooler, oil/air, 10 fins per inch (25.4 mm)
●	Hydraulic cooler, oil/air, 10 fins per inch (25.4 mm)
●	Enclosed safety fan guard (conforms to SAE J1308 and ISO3457)
●	Perforated engine and hood side shields
●	Tilt-out bar-type heavy-duty grille
●	Extreme-duty grille
Hydraulic System	
●	2-function hydraulics
▲	3-function hydraulics
▲	4-function hydraulics with rear plumbing
▲	High-flow hydraulic pump and hydraulic cooler for use with winch
▲	Integrated Grade Control (IGC) hydraulics
●	Lift cylinder hose guards

850K	
WH	Mainframe, Access Panels
●	Tilt operator station transmission access
●	Front tow loops
●	Integral bottom protection
●	Hinged bottom access covers (bolt-on)
●	Vandal protection for all service doors, all tanks, and instrument panel
●	Tank guards
Undercarriage	
●	Oscillating undercarriage with maintenance-free center crossbar pivot
●	Full-length, smooth-surface track frame covers
●	Front and rear chain guides with bolt-on wear strips
●	Segmented sprockets
●	Double-flange rollers
▲	Extended Life undercarriage with SC-2™ bushings
▲	Full-length rock guards
●	Final-drive trash guards
▲	Recessed sprockets
▲	762-mm (30 in.) extreme-service shoes with trapezoidal holes
▲	914-mm (36 in.) extreme-service shoes with trapezoidal holes
Service	
●	Remote transmission diagnostic test ports
●	Environmental service drains
▲	Fluid-sample valves
▲	Fast-fuel system
▲	Quick-service ports
▲	Rear storage compartment
Attachments	
▲	Retrieval hitch with pin
▲	Extended rigid drawbar with pin for pull-type implements
▲	Rear counterweight, 327 kg (720 lb.)
▲	Rear counterweight, 454 kg (1,000 lb.)
▲	Ripper, rear, 3 shank
▲	Winch, hydrostatically driven
▲	Blade trash rack

850K	
WH	Cab — Operator's Station and Electrical
●	Retractable seat belts, 76 mm (3 in.) (conform to SAE J386)
●	Convex interior rearview mirror, 102-mm (4-in.) tall, 203-mm (8-in.) wide (conforms to SAE J985)
●	Power port, console-mounted, 12 volts
▲	Second console-mounted power port, 12 volts
●	Lockable dash-mounted storage compartment
●	Air conditioner, 24,000 Btu
●	Heater (roof mount)
●	Under-seat heater
●	Tinted glass
●	Dome light
●	Air-ride fabric seat
▲	Heated air-ride fabric seat
●	Independently operable wipers (intermittent plus 2 speeds) with washers – front and rear windows, and left and right doors
●	AM/FM/weather-band radio with auxiliary input, roof-mounted
●	Storage compartment next to radio with power port
▲	External-mounted rear-attachment mirror
●	Sealed alternator, cab 130 amps, canopy 100 amps
●	Master electrical disconnect switch
●	Lights, grille mounted (2) and rear facing (2)
●	Additional lights, roof-mounted (2), forward-facing
●	JDLINK™ Ultimate wireless communication system (available in specific countries; see your dealer for details)
▲	Powered cab-air precleaner

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions per ISO9249. No derating is required up to 3050-m (10,000 ft.) altitude. Also available: winches, fairleads, log arches, skidding grapples, trash packages, landfill protection packages, cable plows, side booms, field-installed cab for canopy, canopy heater, and fire-suppression systems. 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 rollover protective structure, full fuel tank, 79-kg (175 lb.) operator, and standard equipment. Operator station ROPS and FOPS certified.

