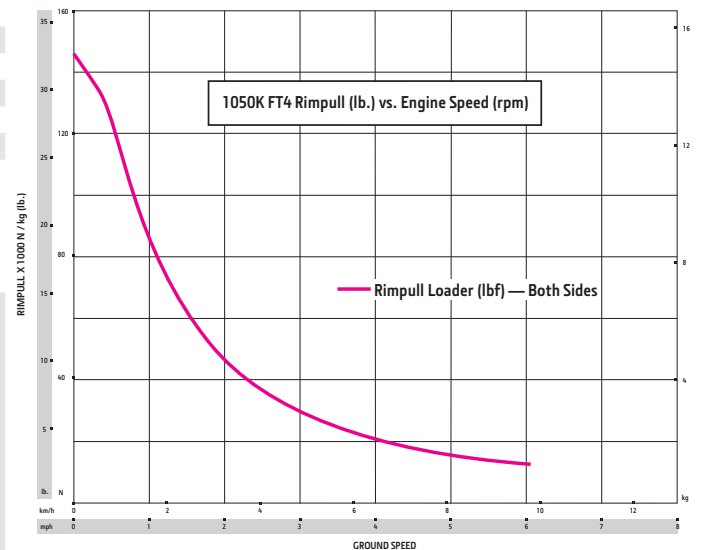


1050K

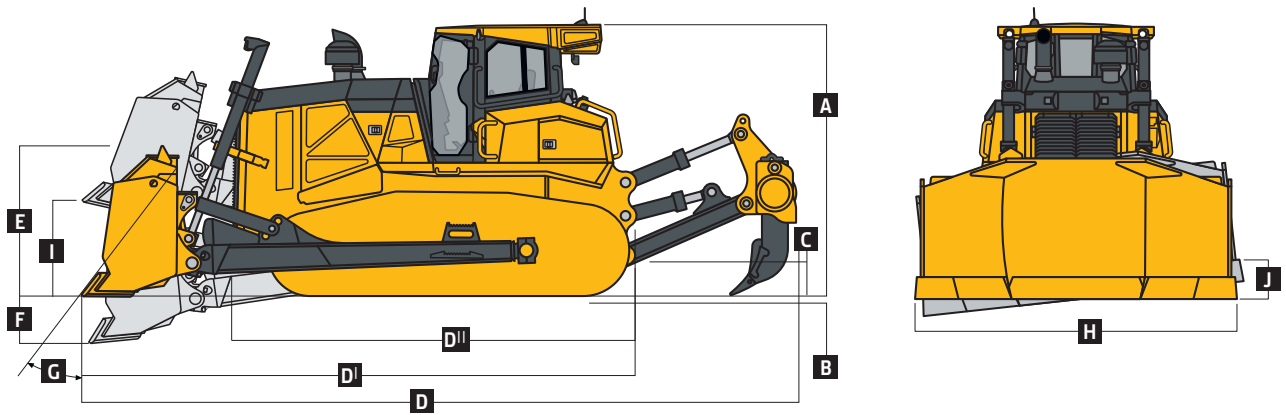
Engine	1050K OUTSIDE DOZER (OSD)
Blade Type	<i>Semi-U Blade / U Blade</i>
Manufacturer and Model	John Deere PowerTech™ PSS 6135
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV
Displacement	13.5L (824 cu. in.)
SAE Net Rated Power	236 kW (317 hp) at 2,000 rpm
Net Peak Torque	1576 Nm (1,162 lb.-ft.) at 1,300 rpm
Aspiration	Turbocharged and air-to-air aftercooled
Air Cleaner	Dual-element dry canister with external rotary ejector precleaner
Cooling	
Type	Variable-speed suction fan with automatic reversing
Engine Coolant Rating	-37 deg. C (-34 deg. F)
Engine Radiator	8 fins per in.
Powertrain	
Transmission	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 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	11 km/h (6.8 mph)
Maximum (optional)	11 km/h (6.8 mph)
Steering	Single-lever steering, 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
Final Drives, Total Ratio	51.337
Drawbar Pull	
Maximum	623 kN (140,000 lb.)
At 1.9 km/h (1.2 mph)	332 kN (74,600 lb.)
At 3.2 km/h (2.0 mph)	208 kN (46,700 lb.)
Brakes	
Service	Hydrostatic (dynamic) braking stops machine whenever the direction/steering control lever is moved to neutral or the decelerator is depressed to the end of travel
Parking	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 wearout or need for adjustment; spring applied, hydraulic release
Hydraulics	
Type	Load-sensing electrohydraulic (EH) system variable-displacement piston pump
Pump Displacement	145 cc
System Relief Pressure	24 993 kPa (3,625 psi)
Differential Pressure	1896 kPa (275 psi)
Maximum Flow at Unloaded High Idle	308 L/m (81 gpm)
Control	2-function EH T-bar joystick



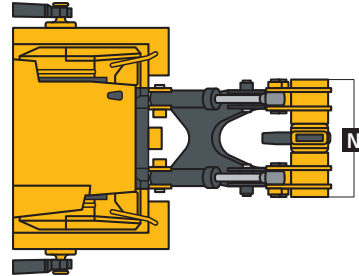
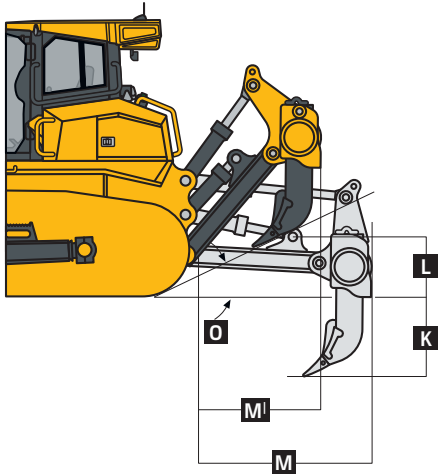


Electrical	1050K OSD	
Voltage	24 volts	
Capacity		
Battery	950 CCA	
Reserve	190 min.	
Alternator Rating	130 amp	
Lights	Cylinder mounted (2), rear-mounted cab (2), roof-mounted forward facing (2), engine compartment (1), and rear reflectors (2)	
Undercarriage		
Blade Type	<i>Semi-U Blade / U Blade</i>	
Tracks	Track frame includes bogie undercarriage design with sealed track-adjuster cavity, 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; track shoes are extreme duty	
Track Gauge	2184.4 mm (86 in.)	
Grouser Width	610 mm (24 in.)	
Chain	Sealed and lubricated	
Shoes, Each Side	46	
Track Rollers, Each Side	8	
Track Length on Ground	3419 mm (134.6 in.)	
Ground Contact Area	41 684 cm ² (6,462 sq. in.)	
Ground Pressure	101 kPa (14.6 psi)	
Track Pitch	215.9 mm (8.5 in.)	
Operator Station		
	ROPS (ISO 3471 – 2008) and FOPS (ISO 3449 – 2005)	
Serviceability		
Refill Capacities		
Fuel Tank with Lockable Cap	681 L (180 gal.)	
Diesel Exhaust Fluid (DEF) Tank	22.9 L (6.1 gal.)	
Cooling System with Recovery Tank	73.5 L (19.4 gal.)	
Engine Oil with Filter	43.5 L (11.5 gal.)	
Reservoir with Filter (oil volume of tank only)		
Transmission	149 L (39.44 gal.)	
Hydraulic	87 L (23 gal.)	
Operating Weights		
Blade Type	<i>Semi-U Blade</i>	<i>U Blade</i>
Base Weight (includes standard equipment, rollover protective structure [ROPS], single-shank ripper, 610-mm [24 in.] track shoes, full fuel tank, and 79-kg [175 lb.] operator)	42 800 kg (94,300 lb.)	43 100 kg (95,000 lb.)
Optional Components	<i>Semi-U Blade / U Blade</i>	
Front and Door Screens	61 kg (135 lb.)	
Rear Screen	36 kg (80 lb.)	
Side Screens	41 kg (90 lb.)	
Condenser Guard	19 kg (42 lb.)	
Limb Risers	755 kg (1,664 lb.)	
Rear Counterweight	2232 kg (4,921 lb.)	
Retrieval Hitch (standard drawbar on counterweight)	65 kg (143 lb.)	
Winch (includes 3-roller fairlead)	1905 kg (4,200 lb.)	
Winch-Mounting Plate	1115 kg (2,458 lb.)	
Heating, Ventilating, and Air-Conditioning (HVAC)-Powered Precleaner	20 kg (44 lb.)	
Track Shoes		
610 mm (24 in.) Extreme Duty or Trapezoidal	Extreme duty in base	
660 mm (26 in.) Extreme Duty or Trapezoidal	249 kg (548 lb.)	
710 mm (28 in.) Extreme Duty or Trapezoidal	497 kg (1,096 lb.)	

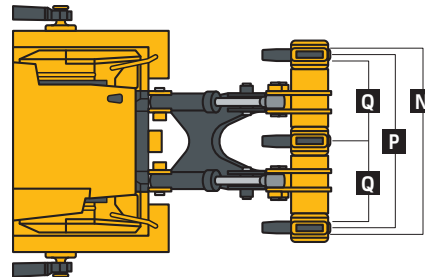
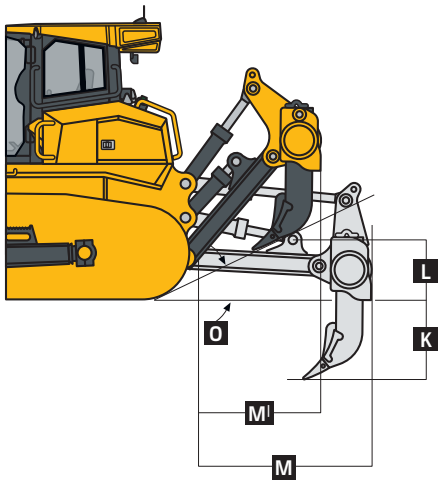
Machine Dimensions		1050K OSD	
Blade Type		<i>Semi-U Blade</i>	<i>U Blade</i>
A	Overall Height to Roof	3476 mm (11 ft. 5 in.)	3476 mm (11 ft. 5 in.)
B	Tread Depth with Single-Bar Grouser, Extreme Duty or Trapezoidal	85 mm (3.3 in.)	85 mm (3.3 in.)
C	Ground Clearance in Dirt (includes grouser height)	537 mm (21 in.)	537 mm (21 in.)
D Overall Length			
	With Blade and Ripper	8780 mm (28 ft. 10 in.)	9093 mm (29 ft. 10 in.)
	With Blade and Winch with Fairlead Rollers	7738 mm (25 ft. 5 in.)	8184 mm (26 ft. 10 in.)
D^I	Overall Length with Blade	6678 mm (21 ft. 11 in.)	6991 mm (22 ft. 11 in.)
D^{II}	Overall Length without Ripper and Blade	5137 mm (16 ft. 10 in.)	5137 mm (16 ft. 10 in.)
E	Blade Lift Height	1099 mm (3 ft. 7 in.)	1099 mm (3 ft. 7 in.)
F	Blade Digging Depth	707 mm (28 in.)	707 mm (28 in.)
G Blade Cutting-Edge Angle			
	Standard	53.5 to 59.5 deg.	53.5 to 59.5 deg.
	Power Pitch	52.6 to 60.4 deg.	52.6 to 60.4 deg.
H	Blade Width	3964 mm (156 in.) (13 ft. 0 in.)	3964 mm (156 in.) (13 ft. 0 in.)
I Blade Height			
	SAE Capacity	9.7 m ³ (12.7 cu. yd.)	11.4 m ³ (14.9 cu. yd.)
	Blade Weight	2726 kg (6,010 lb.)	3400 kg (7,490 lb.)
	Push-Beam Assembly Weight (without blade)	2960 kg (5,930 lb.)	2960 kg (5,930 lb.)
J Blade Tilt			
	Width Over Track (no trunnions)	2895 mm (9 ft. 6 in.)	2895 mm (9 ft. 6 in.)
	Width Over Trunnions	3408 mm (11 ft. 2 in.)	3408 mm (11 ft. 2 in.)



Rear Ripper		1050K OSD	
Blade Type	Semi-U Blade / U Blade		
Ripper Type	Single Shank	Multi Shank	
Weight	3793 kg (8,362 lb.)	4586 kg (10,110 lb.)	
K Maximum Penetration	1102 mm (3 ft. 7 in.)	780 mm (31 in.)	
L Maximum Clearance Under Tip	727 mm (29 in.)	689 mm (27 in.)	
M Added Length, Lowered (transport) Position	2260 mm (7 ft. 5 in.)	2116 mm (7 ft. 0 in.)	
M' Added Length, Raised Position	1880 mm (6 ft. 2 in.)	1745 mm (5 ft. 9 in.)	
N Overall Beam Width	1418 mm (4 ft. 8 in.)	2527 mm (8 ft. 4 in.)	
O Slope Angle (full raise)	26 deg.	25 deg.	
P Ripping Width	—	2184 mm (7 ft. 2 in.)	
Q Distance Between Shanks	—	1092 mm (3 ft. 7 in.)	



1050K DOZER WITH SINGLE-SHANK REAR RIPPER



1050K DOZER WITH MULTI-SHANK REAR RIPPER

Additional equipment

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

1050K Engine

- Meets EPA Final Tier 4/EU Stage IV emissions
- John Deere PowerTech™ PSS 6135 13.5L engine
- Wet-sleeve cylinder liners
- Eco mode
- Exhaust stack, black
- ▲ Exhaust stack, chrome
- Electronic control with automatic engine protection
- Turbocharged and air-to-air aftercooled
- Dual-element dry canister with external rotary ejector precleaner
- Programmable auto engine shutdown
- Automatic turbo cool-down timer
- ▲ Severe-duty fuel lines and fittings
- Engine coolant heater, 120V
- 130-amp alternator

Cooling

- Engine coolant rated -37 deg. C (-34 deg. F)
- Automatic, programmable reversing fan
- Engine radiator, 8 fins per in.

Powertrain

- Dual-path hydrostatic (HST) transmission
- Selectable reverse-speed ratios
- Operator-selectable decelerator function (hydrostats and engine or hydrostats only)
- Single-lever steering with counter-rotate function
- Full power turns with infinitely variable track speed
- HST (dynamic) service brakes
- Wet, multi-disc parking brake

Hydraulics

- Load-sense electrohydraulic (EH) system with variable-displacement piston pump
- ▲ 2-spool EH control valve for outside dozer
- ▲ 3-spool EH control valve for outside dozer with single auxiliary
- ▲ 3-spool EH control valve, auxiliary only

1050K Hydraulics (continued)

- ▲ 4-spool EH control valve for outside dozer with dual auxiliary
- ▲ 5-spool EH control valve for outside dozer with triple auxiliary
- Hydrau™ All-Season Hydraulic Oil, -25 deg. C to 50 deg. C (-13 deg. F to 122 deg. F)
- ▲ Hydrau™ XR Hydraulic Oil, -40 deg. C to 40 deg. C (-40 deg. F to 104 deg. F)
- ▲ Power pitch for outside dozer
- ▲ Hydraulic-winch-ready kit

Undercarriage

- Bogie undercarriage design
- Sealed track adjuster cavity
- Standard track outside dozer frame, 2180-mm (86 in.) track gauge
- Extreme-service shoes, 610 mm (24 in.)
- ▲ Extreme-service shoes, 660 mm (26 in.)
- ▲ Extreme-service shoes, 711 mm (28 in.)
- ▲ Extreme-service shoes, trapezoidal, 610 mm (24 in.)
- ▲ Extreme-service shoes, trapezoidal, 660 mm (26 in.)
- ▲ Extreme-service shoes, trapezoidal, 711 mm (28 in.)
- ▲ Trash guard, final drive

Operator's Station

- Enclosed cab with air conditioner/heater
- Retractable seat belt, 76 mm (3 in.) (conforms to SAE J386)
- Air-suspension cloth seat
- ▲ Air-suspension heated deluxe seat
- AM/FM radio
- ▲ XM Satellite Radio™
- ▲ HVAC-powered precleaner
- Tilting cab
- 178-mm (7 in.) color, multi-language Primary Display Unit (PDU)
- Backup alarm
- 12-volt accessory plug
- Keyless start

1050K Overall Vehicle

- Environmental drain package
- Fluid-sample valves
- JDLink™ Ultimate wireless machine communication system (available in specific countries; see your local dealer for details)
- ▲ Quick service ports (HST, hydraulic, and engine oil, and coolant)
- ▲ Fast-fuel system
- Halogen lights (6 total): cylinder mounted (2); rear cab mounted (2); and roof mounted, front facing (2)
- Reflectors, rear facing (2)
- ▲ LED work lights (6)
- ▲ Deluxe LED work lights (10)
- ▲ Beacon light
- Grade-control-ready EH hydraulics
- ▲ Topcon-ready interface package
- ▲ Trimble-ready interface package
- ▲ Leica-ready interface package

Attachments

- ▲ Less blade
- ▲ U Blade, 3964 mm (156 in.)
- ▲ Semi-U Blade, 3964 mm (156 in.)
- ▲ U Blade, 3964 mm (156 in.), with rock rack and wear plate
- ▲ Semi-U Blade, 3964 mm (156 in.), with rock rack and wear plate
- ▲ Semi-U Blade, 3964 mm (156 in.), with push plate
- Standard end bits and cutting edges
- ▲ Heavy-duty end bits and cutting edges
- ▲ Cast end bits and cutting edges
- ▲ Ripper, multi-shank
- ▲ Ripper, single shank
- ▲ Ripper, single shank with hydraulic pin puller
- ▲ Rear counterweight, 2232 kg (4,921 lb.)
- ▲ Retrieval hitch



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, modular ROPS/cab, full fuel tank, and 79-kg (175 lb.) operator.