

700K



Engine	700K XLT / 700K LGP
Blade Type	Power Angle Tilt (PAT)
Manufacturer and Model	John Deere PowerTech™ PVX 6068
Non-Road Emissions Standard	EPA Interim Tier 4/EU Stage IIIB
Displacement	6.8 L (414 cu. in.)
SAE Net Rated Power	93 kW (125 hp) at 1,800 rpm
Net Peak Torque	563 Nm (416 lb.-ft.) at 1,300 rpm
Aspiration	Turbocharged with charge air cooler
Air Cleaner	Dual-stage dry tube with tangential unloader
Slope Operation, Maximum Angle	45-deg. fore-aft / 30-deg. side slope

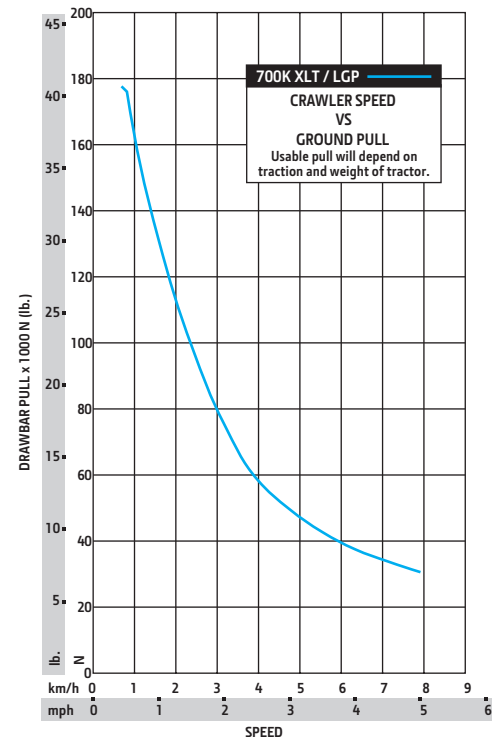
Cooling	
Type	Variable-speed suction fan with optional reversing feature
Engine Coolant Rating	-37 deg. C (-34 deg. F)
Engine Radiator	10 fins per in.

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	47 573 kPa (6,900 psi)
Travel Speeds	
Forward and Reverse	8.9 km/h (5.5 mph)
Maximum (optional)	9.7 km/h (6.0 mph)

Steering	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
Final Drives	Triple-reduction final drives mounted independently of track frames and dozer push frames for isolation from shock loads
Total Ratio	33.59 to 1

Drawbar Pull	
Maximum	200 kN (45,000 lb.)
At 1.9 km/h (1.2 mph)	116 kN (26,000 lb.)
At 3.2 km/h (2.0 mph)	74 kN (16,600 lb.)

Brakes	
Service	Hydrostatic (dynamic) braking stops the machine whenever direction-control lever is moved to neutral or the decelerator is depressed to the detent
Parking	Exclusive spring-applied, hydraulically released park brake feature engages wet, multiple-disc brakes automatically whenever the engine stops, the operator depresses the decelerator pedal to the brake position, the unit is in neutral for 3 seconds (with detected motion), or the park-lock lever is in the park position; machine cannot be driven with brake applied, minimizing wearout or need for adjustment



Hydraulics	
Type	Open-center hydraulic system with fixed-displacement gear pump
Pump Displacement	44 cc
System Relief Pressure	22 063 kPa (3,200 psi)
Maximum Flow at Unloaded High Idle	95 L/m (25 gpm)
Control	3-function direct-acting T-bar joystick with push-button angle function



Electrical		700K XLT / 700K LGP	
Voltage	24 volts		
Battery Capacity	950 CCA		
Reserve Capacity	190 min.		
Alternator Rating			
Cab	130 amp		
Canopy	100 amp		
Lights	Grille mounted (2), rear mounted (2), and rear reflectors (2)		
Undercarriage		700K XLT	700K LGP
Blade Type	PAT		PAT
Tracks	John Deere Dura Trax™ features large 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	1778 mm (70 in.)	1981 mm (78 in.)	
Grouser Width	560 mm (22 in.)	760 mm (30 in.)	
Chain	Sealed and lubricated		
Shoes, Each Side	39	39	
Track Rollers, Each Side	7	7	
Track Length On Ground	2590 mm (102 in.)	2590 mm (102 in.)	
Ground Contact Area	29 946 cm ² (4,487 sq. in.)	39 472 cm ² (6,118 sq. in.)	
Ground Pressure	46.4 kPa (6.74 psi) standard / 47.7 kPa (6.92 psi) Maximum Life		
Track Pitch	191 mm (7.5 in.)	191 mm (7.5 in.)	
Oscillation at Front Roller	± 94 mm (± 3.7 in.)	± 94 mm (± 3.7 in.)	
Operator Station		700K XLT / 700K LGP	
ROPS (ISO 3471 – 2008) and FOPS (ISO 3449 – 2005)			
Serviceability			
Refill Capacities			
Fuel Tank with Lockable Cap	284 L (75 gal.)		
Cooling System with Recovery Tank	33.4 L (8.8 gal.)		
Engine Oil with Filter	24.6 L (6.5 gal.)		
Transmission Reservoir with Filter	68.9 L (18.2 gal.)		
Hydraulic Reservoir and Filter	53.8 L (14.2 gal.)		
Operating Weights		700K XLT	700K LGP
Blade Type	PAT		PAT
<i>Base Weight (with standard equipment, rollover protective structure [ROPS], full fuel tank, and 79-kg [175 lb.] operator)</i>	13 710 kg (30,225 lb.)	14 170 kg (31,240 lb.)	
Optional Components			
Cab with Pressurizer and Heater/Air Conditioner	288 kg (635 lb.)	288 kg (635 lb.)	
Heater (ROPS canopy)	39 kg (85 lb.)	39 kg (85 lb.)	
Front and Door Screens			
ROPS Canopy	54 kg (120 lb.)	54 kg (120 lb.)	
Cab with Air Conditioner	68 kg (151 lb.)	68 kg (151 lb.)	
Rear Screen			
ROPS Canopy	20 kg (45 lb.)	20 kg (45 lb.)	
Cab with Air Conditioner	41 kg (91 lb.)	41 kg (91 lb.)	
Side Screens			
ROPS Canopy	54 kg (120 lb.)	54 kg (120 lb.)	
Cab with Air Conditioner	68 kg (151 lb.)	68 kg (151 lb.)	
Limb Risers (ROPS canopy and cab)	155 kg (341 lb.)	155 kg (341 lb.)	
Front Counterweight	172 kg (380 lb.)	172 kg (380 lb.)	
Retrieval Hitch	31 kg (68 lb.)	31 kg (68 lb.)	
Drawbar, Extended Rigid	88 kg (195 lb.)	88 kg (195 lb.)	
Winch	652 kg (1,437 lb.)	652 kg (1,437 lb.)	
Fairlead, 4 Roller	85 kg (187 lb.)	85 kg (187 lb.)	
Full-Length Rock Guards	130 kg (287 lb.)	130 kg (287 lb.)	
Maximum Life Undercarriage	373 kg (822 lb.)	373 kg (822 lb.)	
Shoes			
560-mm (22 in.) Track	In base	– 493 kg (– 1,086 lb.)	
610-mm (24 in.) Track	—	– 371 kg (– 818 lb.)	
760-mm (30 in.) Track	—	In base	
760-mm (30 in.) Swamp	—	– 14 kg (– 31 lb.)	

Machine Dimensions

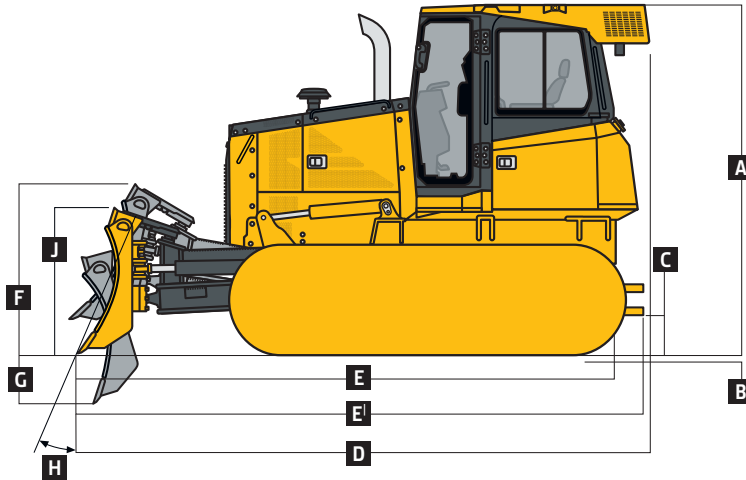
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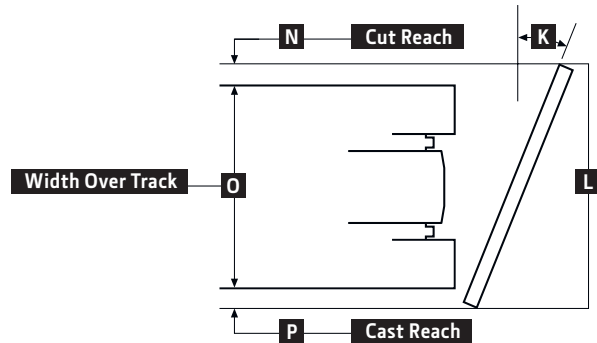
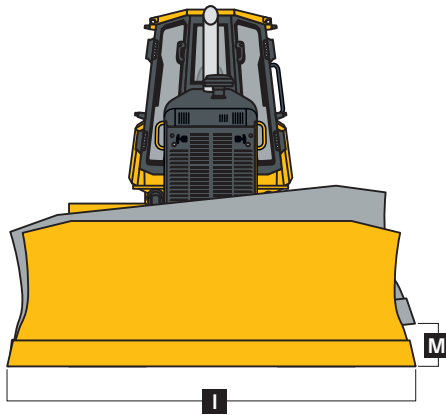
Blade Type

PAT

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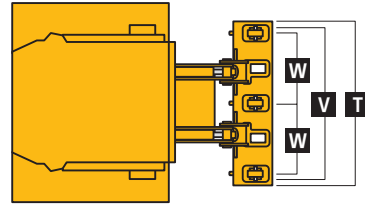
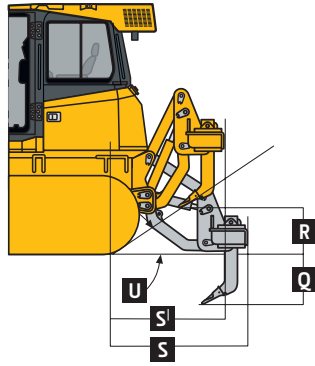


A Overall Height to Roof	2936 mm (9 ft. 8 in.)	2936 mm (9 ft. 8 in.)
B Tread Depth with Single-Bar Grouser	56 mm (2.2 in.)	56 mm (2.2 in.)
C Ground Clearance in Dirt	393 mm (15.5 in.)	393 mm (15.5 in.)
D Overall Length	4815 mm (15 ft. 9 in.)	4815 mm (15 ft. 9 in.)
E Length with Retrieval Hitch	4680 mm (15 ft. 4 in.)	4680 mm (15 ft. 4 in.)
E' Length with Extended Drawbar	5033 mm (16 ft. 6 in.)	5033 mm (16 ft. 6 in.)
F Blade Lift Height	991 mm (39 in.) (3 ft. 3 in.)	991 mm (39 in.) (3 ft. 3 in.)
G Blade Digging Depth	533 mm (21 in.)	533 mm (21 in.)
H Blade Cutting-Edge Angle, Adjustable	533 mm (21 in.)	533 mm (21 in.)



Straight

I Blade Width	3048 mm (120 in.) (10 ft. 0 in.)	3353 mm (132 in.) (11 ft. 0 in.)
J Blade Height	991 mm (39 in.) (3 ft. 3 in.)	991 mm (39 in.) (3 ft. 3 in.)
SAE Capacity	2.6 m ³ (3.4 cu. yd.)	2.9 m ³ (3.8 cu. yd.)
Weight	747 kg (1,646 lb.)	810 kg (1,785 lb.)
C-Frame Assembly Weight (without blade)	663 kg (1,461 lb.)	663 kg (1,461 lb.)
K Blade Angle	25 deg.	25 deg.
L Overall Width with Blade Angled	2769 mm (109 in.)	3073 mm (121 in.)
M Blade Tilt (uses tilt jack)	432 mm (17 in.)	457 mm (18 in.)
N Cut Reach	25 mm (1 in.)	- 25 mm (- 1 in.)
O Width Over Track	2337 mm (92 in.)	2743 mm (108 in.)
P Cast Reach	381 mm (15 in.)	330 mm (13 in.)



Heavy-duty parallelogram ripper, 5 shank pockets with 3 teeth

Weight 1444 kg (3,183 lb.)

Q Maximum Penetration 563 mm (22 in.)

R Maximum Clearance Under Tip 584 mm (23 in.)

S Overall Length, Lowered Position 1494 mm (59 in.)

S' Overall Length, Raised Position 1210 mm (48 in.)

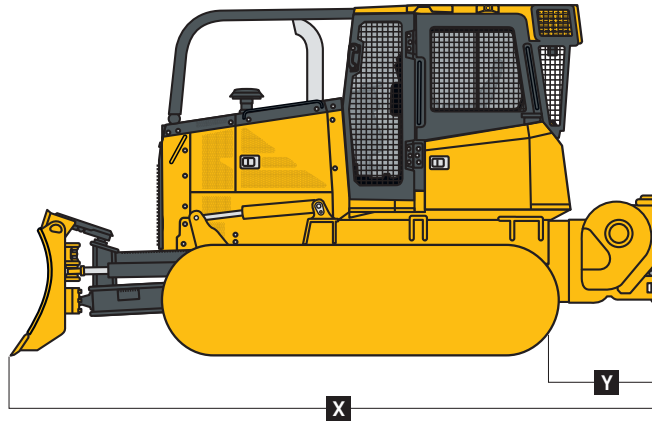
T Overall Beam Width 1930 mm (6 ft. 4 in.)

U Slope Angle (full raise) 26 deg.

V Ripping Width 1673 mm (5 ft. 6 in.)

W Distance Between Shanks 806 mm (32 in.)

4000S Winch



X Overall Length with Winch 5395 mm (17 ft. 8 in.)

Y Winch Length 798 mm (31 in.)