# 764 HSD

Engine

Manufacturer and Model John Deere PowerTech™ Plus 6068H

Non-Road Emission Standards EPA Tier 3/EU Stage IIIA

Cylinders

Displacement 414 cu. in. (6.8 L)

Horsepower at Maximum Travel Speeds 0-12.8 mph (0-20.6 km/h) 12.8-16.0 mph (20.6-25.7 km/h)

Net Peak Power at 1,800 rpm (ISO 9249) 200 hp (149 kW) 210 hp (157 kW) Net Gross Power at 1,800 rpm 210 hp (157 kW) 220 hp (164 kW)

Net Peak Torque at 1,500 rpm (ISO 9249) 704 lb.-ft. (954 Nm)

4.19 x 5.00 in. (106.5 x 127.0 mm) Engine Bore and Stroke Aspiration Turbocharger with air-to-air aftercooler

Air Cleaner Dual-stage dry type with safety element, pre-cleaner, and under-hood restriction indicator

Slope Operation (maximum angle)

Cooling

Variable-speed reversible fan

**Engine Coolant Rating** -34 deg. F. (-37 deg. C)

**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 100%, 115%, or 130% of forward ground speed;

decelerator pedal controls ground speed to dead stops

System Relief Pressure 6,650 psi (23 442 kPa)

Maximum Travel Speeds (forward and reverse) 0-16.0 mph (0-25.7 km/h)

Steering Dual steering system; left-hand joystick and conventional steering wheel

Maximum Articulation Angle

**Final Drives** Double-reduction, planetary final drives transfer torque loads over 3 gear sets

Drawbar Pull

Maximum 34,000 lb. (151.2 kN) At 1.5 mph (2.4 km/h) 21,000 lb. (93.4 kN) At 3.0 mph (4.8 km/h) 13,500 lb. (60.0 kN)

At 10.0 mph (16.1 km/h) 2,200 lb. (9.8 kN)

Decelerator/brake pedal; automatic power management with manual override for matching ground speed Service Brakes Hydrostatic (dynamic) braking stops machine when the direction controls are moved to neutral or the

decelerator is depressed to the end of travel

Type Hydraulic

**Parking Brakes** Exclusive park-brake feature engages wet, multiple-disc brakes whenever the engine stops, whenever the combined decelerator/brake is fully depressed, whenever the park-brake switch is in the park position, or

whenever the left-hand armrest is in the up position; machine cannot be driven with brake applied, reduc-

ing wear-out or need for adjustments; spring-applied, hydraulic release

Hydraulics

Load sense, piston pump

Pump (147 cc) 70 gpm (265 L/m) System Relief Pressure 3,650 psi (25 166 kPa) Maximum Flow at Unloaded High Idle 73.8 gpm (279 L/m)

Control Electrohydraulic joystick with push-button angle function

Cooling Convective oil sump

Rear Hydraulics 2 double-acting variable circuits, each capable of 34 gpm (128.7 L/m)

Maximum Circuit Pressure 2,500 psi (17 237 kPa)

Cylinders

Heat-treated, chrome-plated, polished cylinder rods; hardened steel (replaceable bushings) pivot pins

**Electrical** 

Voltage 24 volt **Battery Capacity** 950 CCA Reserve Capacity 190 min. Alternator Rating (cab)

**Work Lights** 8 total: cab-mounted (4 front and 2 rear) and platform-mounted (2)

Warning Flashers Platform-mounted (2) Turn Signals Rear-mounted (2) Stoplights Rear-mounted (2)



Undercarriage	764 HSD
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Track System Friction and positive-drive rubber track system equipped with 2 front idlers, 2 rear idlers, drive sprocket, and

4 mid-rollers per track frame

 Track

 Gauge
 78 in. (1981 mm)

 Width
 24 in. (610 mm)

Belts Extra-thick rubber belt with continuous steel cables; extra-high and -wide tread bars for long life; large drive/

guide lugs for long service life

Length on Ground (per track) 53 in. (1346 mm)
Ground Contact Area (per track) 1,272 sq. in. (8206 cm²)
Ground Pressure 6.68 psi (46.1 kPa)

Oscillation

Track Frame 20 deg. (10 deg. up or down)
Front and Rear A-Frame 10 deg. (5 deg. up or down)
Rear Axle 12.4 deg. (6.2 deg. up or down)

# Serviceability

**Refill Capacities** 

Fuel Tank with Lockable Cap 106 gal. (401 L)
Cooling System with Recovery Tank 11.1 gal. (42 L)
Engine Oil with Filter 7 gal. (26.5 L)
Hydraulic and Transmission Reservoir with Filters 60 gal. (227.1 L)

### **Operating Weights**

With standard equipment, rollover protective structures, full fuel tanks, and 175-lb. (79 kg) operator

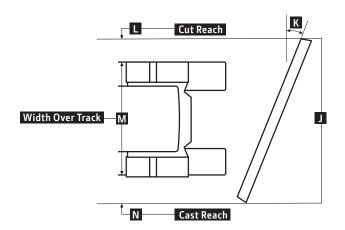
Base Weight 34,000 lb. (15 422 kg)

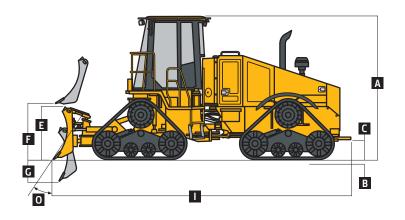
# **Machine Dimensions**

Clearance Circle with Blade

# Blade Type: PAT

blade Type: TAT			
Α	Overall Height		
	To Roof	10 ft. 3 in. (3124 mm)	
	To Exhaust Stack	9 ft. 9 in. (2972 mm)	
В	Tread Depth	1.4 in. (36 mm)	
C	Ground Clearance	13.1 in. (333 mm)	
D	Blade Width	11 ft. 0 in. (3353 mm)	
Ε	Blade Height	3 ft. 3 in. (991 mm)	
F	Blade Lift Height	29 in. (739 mm)	
G	Blade Digging Depth	29 in. (739 mm)	
Н	Blade Tilt	18 in. (457 mm)	
1	Overall Length with Blade and Drawbar	22 ft. 10 in. (6962 mm)	
J	Overall Width with Blade Angled	10 ft. 1 in. (3073 mm)	
K	Blade Angle	25 deg.	
L	Cut Reach	2 in. (51 mm)	
M	Width Over Track	8 ft. 6 in. (2591 mm)	
N	Cast Reach	16 in. (406 mm)	
0	Blade Cutting-Edge Angle (adjustable)	7 deg.	
	Blade Capacity	3.75 cu. yd. (2.87 m <sup>3</sup> )	





19 ft. 7 in. (5974 mm)

