

PIPELAYER-READY CRAWLERS



JOHN DEERE

PL40 / PL100 / PL220



TAILOR MADE FOR THE TRENCHES

When you're battling tight deadlines and budgets, you need a dedicated worker in the trenches. John Deere Pipelayer (PL)-Ready Crawlers are purpose built to ease installation of your preferred sideboom. PL controls seamlessly integrate with the intuitive, low-effort Deere dozer joystick controls. Dual-path hydrostatic transmission and Eco mode help optimize fuel efficiency. And you can count on the exceptional visibility, effortless operation, and rugged durability you've come to expect from Deere equipment.



GOOD TO GO

Sideboom-ready PL platform and mounting plates with pin-up/bolt-on design simplify installation and speed setup.



INTEGRATED CONTROLS

Pipelayer controls are seamlessly integrated into the low-effort electrohydraulic (EH) joysticks, with a thumb roller providing smooth, precise control and a quick-drop button for emergencies.



BALANCED STABILITY

Purpose-built track configurations provide a stable pipelaying platform. Fixed undercarriages enable wide machine stances for steady track-on-the-ground balance as you work the trench.



UPTIME ADVANTAGE

All three PL models share common machine components with our proven dozer lineup, simplifying parts inventory, easing service, and boosting uptime when you have other Deere machines in your fleet.

MEET MA

PL40

101 kW (135 net hp) / 18 456–19 051-kg
(40,688–42,000 lb.) operating weight /
18 144-kg (40,000 lb.) maximum lift
capacity at 1219-mm (4 ft.) overhang



THE CHINES

PL100

168 kW (225 net hp) / 32 677–33 291-kg
(72,040–73,395 lb.) operating weight /
45 359-kg (100,000 lb.) maximum lift
capacity at 1219-mm (4 ft.) overhang



PL220 ▶

264 kW (354 net hp) / 58 356-kg
(128,652 lb.) operating weight /
99 790-kg (220,000 lb.)
maximum lift capacity at
1219-mm (4 ft.) overhang

DEPENDABLE AND READY TO WORK

Advanced hydraulic capabilities, effortless operation, fuel-efficient features, and proven technology solutions help make John Deere Pipelayer (PL)-Ready Crawlers reliably productive performers in any pipelayer crew.

Peak a boom

Straight and centered seat position enables excellent all-around visibility. Roof-viewing window provides clear visibility to the sideboom.

Power to the pipeline

Maximum lift capacity of the PL40 is 40,000 pounds. The PL100 delivers 100,000 pounds of maximum lift capacity. The powerful PL220 provides a 220,000-pound maximum lift capacity.

Predictable precision

Proven dual-path hydrostatic transmission delivers precise, predictable control and smooth movements along the trench.

Waste not

Fuel-conserving Eco mode and auto-idle are especially helpful in pipelayer applications with typically longer idle times.

Easy access

Cabs on the PL100 and PL220 tilt up to 70 degrees in mere minutes, for simple service access even with the sideboom installed.

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™ that proactively addresses machine issues before they arise. With your approval, your dealer or preferred service provider 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.

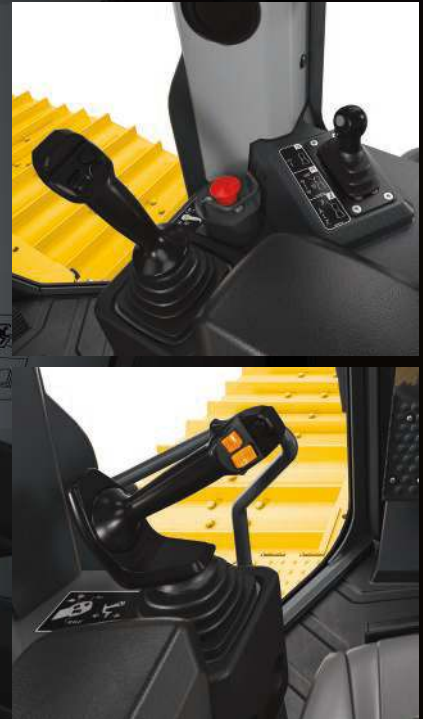


DUAL-PATH HYDROSTATIC DRIVE & ECO MODE

HELP SAVE FUEL & BOOST
PRECISE OPERATION



PURPOSE-BUILT PIPELAYER CONTROLS



Designated pipelayer controls built into the low-effort electrohydraulic (EH) joysticks enable the operator to command the following attachment functions:

- Moving the lever **forward and backward** raises and lowers the load winch.
- Moving the lever **left and right** raises and lowers the boom winch.
- The position of the counterweight is controlled using the **roller switch** on the top of the joystick.
- **Boom/load motor-speed switch** allows the operator to select between low and high speeds while also controlling the boom and load winches at the same time.
- **Quick-drop button** halts operation when a sudden stop is needed or if an emergency occurs.

PL40

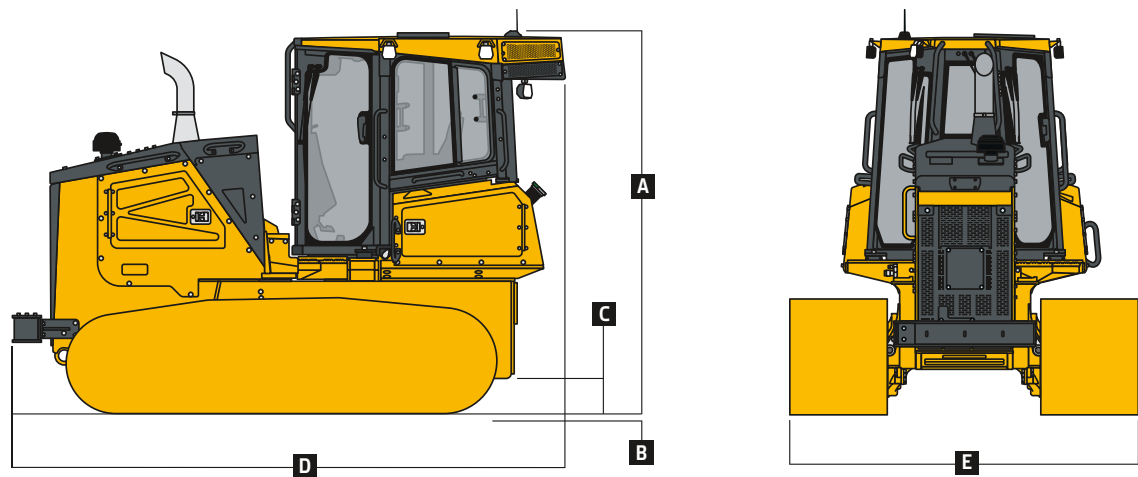
PIPELAYER-READY CRAWLER SPECIFICATIONS

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Engine		PL40
Manufacturer and Model	John Deere PowerTech™ PVS 6068	
Non-Road Emission Standard	EPA Final Tier 4/EU Stage V	
Displacement	6.8 L (414 cu. in.)	
SAE Net Rated Power	101 kW (135 hp) at 1,800 rpm	
Net Peak Torque	608 Nm (448 ft.-lb.) at 1,400 rpm	
Aspiration	Turbocharged with charge-air cooler	
Air Cleaner	Dual-stage dry tube with tangential unloader	
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 (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; reverse speed ratio is fully operator customizable; decelerator pedal provides infinite speed control from full speed to complete stop	
System Relief Pressure	47 574 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, 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	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 (45,050 lb.)	
At 1.9 km/h (1.2 mph)	131 kN (29,500 lb.)	
At 3.2 km/h (2.0 mph)	83 kN (18,600 lb.)	
Brakes		
Service	HST (dynamic) braking stops the machine whenever the direction/steering control lever is moved to neutral or the decelerator is depressed to the detent	
Parking	Exclusive safety feature engages wet, multiple-disc brakes whenever the engine stops, the decelerator is depressed to the end of travel, or motion is detected while the transmission control is in neutral; machine cannot be driven with brake applied, minimizing wearout; spring applied, hydraulic release	
Hydraulics		
Type	Closed-center load-sense hydraulic system with variable-displacement piston pump	
Pump Displacement	63 cc	
System Relief Pressure	22 063 kPa (3,200 psi)	
Differential Pressure	1896 kPa (275 psi)	
Maximum Flow at Unloaded High Idle	132 L/m (35 gpm)	
Control	3-function EH joystick	
Electrical		
Voltage	24 volts	
Capacity		
Battery	950 CCA	
Reserve	175 min.	
Alternator Rating		
Cab	145 amp	
Canopy	110 amp	
Lights	Cab-mounted LED (6) and engine compartment (1)	
Premium LED	Cab-mounted high-output LED (8) and engine compartment (1)	
Undercarriage		
Tracks	John Deere features large deep-heat-treated components; pins and bushings are sealed for life; rollers and idlers are permanently sealed and lubricated; sprockets are segmented; full-length track frame covers reduce material buildup and ease cleaning	
Track Gauge	1981 mm (78 in.)	
Chain	Sealed and lubricated	
Shoes, Each Side	39	
Track Rollers, Each Side	7	
Track Length on Ground	2615 mm (103 in.)	
Track Pitch	191 mm (7.5 in.)	
Grouser Width	560 mm (22 in.)	760 mm (30 in.)
Ground Contact Area	32 569 cm² (5,048 sq. in.)	44 201 cm² (6,851 sq. in.)
Ground Pressure	38.6 kPa (5.6 psi)	29.6 kPa (4.3 psi)

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Operator Station		PL40
Rollover protective structure (ROPS) (ISO 3471 – 2008) and falling object protective structure (FOPS) (ISO 3449 – 2005) Level II		
Serviceability		
Refill Capacities		
Fuel Tank With Lockable Cap	262 L (69.2 gal.)	
Diesel Exhaust Fluid (DEF) Tank	14.2 L (3.8 gal.)	
Cooling System With Recovery Tank	31.4 L (8.3 gal.)	
Engine Oil With Filter	28 L (7.4 gal.)	
Transmission/Hydraulic Reservoir and Filter	102 L (26.9 gal.)	
Final Drive	10.9 L (2.9 gal.)	
Operating Capacity		
Lift Capacity at 1219-mm (4 ft.) Overhang		
Maximum	18 144 kg (40,000 lb.)	
Rated	15 422 kg (34,000 lb.)	
Operating Weights		
<i>Base Weight (includes standard equipment, ROPS, 560-mm [22 in.] shoes, full fuel tank, and 79-kg [175 lb.] operator)</i>		
Operating Weight, Full Sideboom Installed	18 456–19 051 kg (40,688–42,000 lb.)	
Transport Weight, Sideboom Removed	17 843–18 439 kg (39,338–40,650 lb.)	
Pipelayer (PL)-Ready Tractor Only Weight	12 827 kg (28,278 lb.)	
Optional Components		
Cab With Pressurizer and Heater/Air Conditioner	205 kg (452 lb.)	
Rear Screen		
ROPS Canopy	28 kg (62 lb.)	
Cab With Air Conditioner	49 kg (108 lb.)	
Retrieval Hitch	31 kg (68 lb.)	
Drawbar, Extended Rigid	93 kg (205 lb.)	
Winch	652 kg (1,437 lb.)	
Fairlead, 4 Roller	85 kg (187 lb.)	
Track Shoes		
560 mm (22 in.)	In base	
760 mm (30 in.)	507 kg (1,118 lb.)	
Machine Dimensions		
A Overall Height to Roof (includes antenna base)	3047 mm (10 ft. 0 in.)	
B Tread Depth With Single-Bar Grouser	56 mm (2.2 in.)	
C Ground Clearance in Dirt	387 mm (15.2 in.)	
D Overall Length	4384 mm (173 in.) (14 ft. 5 in.)	
Overall Length With Extended Drawbar	4553 mm (179 in.) (14 ft. 11 in.)	
Overall Length With Winch and Fairlead Rollers	4952 mm (195 in.) (16 ft. 3 in.)	
Track Shoes	560 mm (22 in.)	760 mm (30 in.)
E Overall Width (no boom or counterweight)	2545 mm (100 in.) (8 ft. 4 in.)	2741 mm (108 in.) (9 ft. 0 in.)



Rear Ripper		PL40
Type	No ripper offered on pipelayer configuration	
Pipelaying Equipment		
Reference individual supplier brochures for boom, drum, and counterweight specs.		

PL100

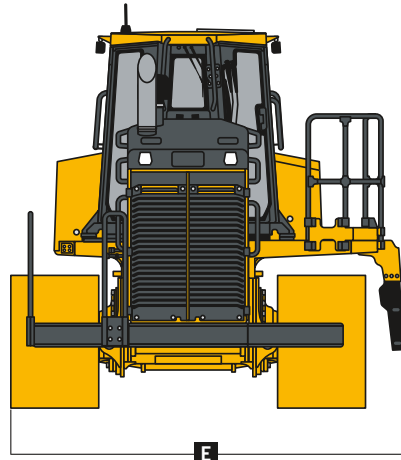
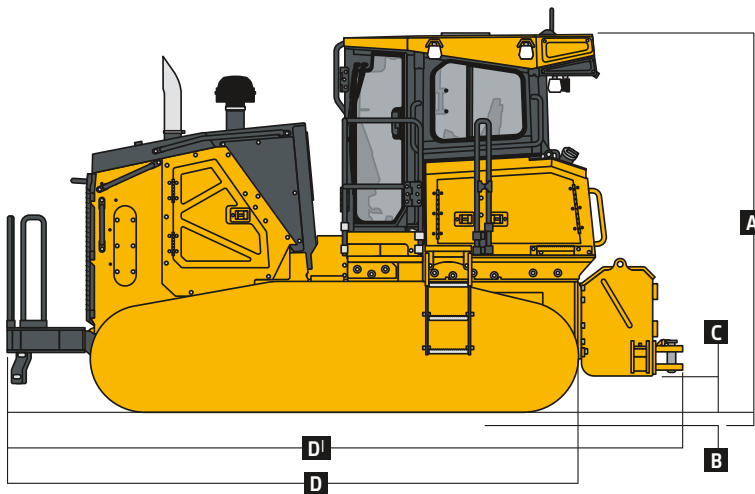
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Engine		PL100
Manufacturer and Model		John Deere PowerTech™ PVR-S 6090
Non-Road Emission Standard		EPA Final Tier 4/EU Stage V
Displacement		9.0 L (549 cu. in.)
SAE Net Rated Power		168 kW (225 hp) at 1,700 rpm
Net Peak Torque		1126 Nm (831 ft.-lb.) at 1,500 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		7 fins per in.
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; reverse speed ratio is fully operator customizable; decelerator pedal provides infinite speed control from full speed to complete stop
System Relief Pressure		47 574 kPa (6,900 psi)
Travel Speeds		
Forward and Reverse		9.7 km/h (6.0 mph)
Maximum (optional)		11.0 km/h (6.8 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 mounted independently of track frames and dozer push frames for isolation from shock loads
Total Ratio		44.75 to 1
Drawbar Pull		
Maximum		365 kN (82,000 lb.)
At 1.9 km/h (1.2 mph)		226 kN (50,700 lb.)
At 3.2 km/h (2.0 mph)		143 kN (32,000 lb.)
Brakes		
Service		HST (dynamic) braking stops the 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		Open-center load-sense hydraulic system with variable-displacement piston pump
Pump Displacement		145 cc
System Relief Pressure		27 579 kPa (4,000 psi)
Differential Pressure		1724 kPa (250 psi)
Maximum Flow at Unloaded High Idle		288 L/m (76 gpm)
Control		4-function EH joystick
Electrical		
Voltage		24 volts
Capacity		
Battery		950 CCA
Reserve		190 min.
Alternator Rating		130 amp
Lights		LED: (2) grille mounted, (2) rear cab mounted, (3) side cab mounted, and (1) engine compartment
Undercarriage		
Tracks		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		2286 mm (90 in.)
Chain		Sealed and lubricated
Shoes, Each Side		45
Track Rollers, Each Side		8
Track Length on Ground		3284 mm (129 in.)
Track Pitch		203 mm (8 in.)
Grouser Width		760 mm (30 in.)
Ground Contact Area		54 963 cm² (8,519 sq. in.)
Ground Pressure		58.6 kPa (8.5 psi)
Operator Station		
Rollover protective structure (ROPS) (ISO 3471 – 2008)		

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Serviceability		PL100	
Refill Capacities			
Fuel Tank With Lockable Cap	439 L (116 gal.)		
Cooling System With Recovery Tank	39.7 L (10.5 gal.)		
Engine Oil With Filter	25 L (6.6 gal.)		
Reservoir With Filter			
Transmission	105 L (27.6 gal.)		
Hydraulic	117 L (30.9 gal.)		
Diesel Exhaust Fluid (DEF) Reservoir	23.7 L (6.3 gal.)		
Operating Capacity			
Lift Capacity at 1219-mm (4 ft.) Overhang			
Maximum	45 359 kg (100,000 lb.)		
Rated	38 555 kg (85,000 lb.)		
Operating Weights			
Includes standard equipment, boom, counterweight, ROPS, 760-mm (30 in.) track shoes, rear drawbar hitch, full fuel tank, and 79-kg (175 lb.) operator			
Operating Weight, Full Sideboom Installed	32 677–33 291 kg (72,040–73,395 lb.)		
Transport Weight, Sideboom Removed	31 656–32 314 kg (69,790–71,241 lb.)		
Transport Weight, Sideboom and Counterweight Removed	26 658–26 793 kg (58,770–59,068 lb.)		
Pipelayer (PL)-Ready Tractor Only Weight	19 965 kg (44,015 lb.)		
Optional Components			
Rear Screen	20 kg (44 lb.)		
Heavy-Duty Grille	35 kg (78 lb.)		
Retrieval Hitch	52 kg (114 lb.)		
Winch With Fairlead	1778 kg (3,920 lb.)		
Center Chain Guides	85 kg (188 lb.)		
Full-Length Rock Guards	242 kg (534 lb.)		
Track Shoes			
760 mm (30 in.)	In base		
910 mm (36 in.)	435 kg (959 lb.)		
Machine Dimensions			
A Overall Height to Roof (includes antenna base and grouser height)	3344 mm (11 ft. 0 in.)		
B Tread Depth With Single-Bar, Moderate-Duty Grouser	66 mm (2.6 in.)		
C Ground Clearance in Dirt	394 mm (15.5 in.)		
D Overall Length With Drawbar (standard configuration)	5770 mm (227 in.) (18 ft. 11 in.)		
D ^l Overall Length With Winch and Fairlead Rollers	5986 mm (236 in.) (19 ft. 8 in.)		
Track Shoes	760 mm (30 in.)	910 mm (36 in.)	
E Overall Width (no boom or counterweight)	3383 mm (133 in.) (11 ft. 1 in.)	3425 mm (135 in.) (11 ft. 3 in.)	



Rear Ripper		PL100
Type	No ripper offered on pipelayer configuration	
Pipelaying Equipment		
<i>Reference individual supplier brochures for boom, drum, and counterweight specs.</i>		

PL220

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Engine		PL220	
Manufacturer and Model		John Deere PowerTech™ PSS 6136	
Non-Road Emission Standard		EPA Final Tier 4/EU Stage IV	
Displacement		13.6L (827 cu. in.)	
SAE Net Rated Power		264 kW (354 hp) at 1,700 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			
Blower Type		Variable-speed suction fan with automatic reversing	
Engine Coolant Rating		-37 deg. C (-34 deg. F)	
Engine Radiator		6.3 fins per in.	
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; reverse-speed ratio is fully operator customizable; decelerator pedal provides infinite speed control from full speed to complete stop	
System Relief Pressure		44 200 kPa (6,411 psi)	
Travel Speeds — Forward and Reverse / Maximum (optional)		11 km/h (6.8 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, Total Ratio		51.337 to 1	
Drawbar Pull			
Maximum		570 kN (128,000 lb.)	
At 1.9 km/h (1.2 mph)		329 kN (74,000 lb.)	
At 3.2 km/h (2.0 mph)		209 kN (47,000 lb.)	
Brakes			
Service		HST (dynamic) braking stops the machine whenever the direction/steering control lever is moved to neutral or the decelerator is depressed to the detent	
Parking		Exclusive safety feature engages wet, multiple-disc brakes whenever the engine stops, the decelerator is depressed to the end of travel, or motion is detected while the transmission control is in neutral; machine cannot be driven with brake applied, minimizing wearout; spring-applied, hydraulic release	
Hydraulics			
Type		Pressure-compensated load-sensing (PCLS) electrohydraulic (EH) system with variable-displacement piston pump	
Pump Displacement		190 cc	
System Relief Pressure		31 026 kPa (4,500 psi)	
Differential Pressure		1724 kPa (250 psi)	
Maximum Flow at Unloaded High Idle		378 L/m (100 gpm)	
Control		2-function EH joystick; pistol grip with proportional roller	
Electrical			
Voltage		24 volts	
Capacity			
Battery		950 CCA	
Reserve		190 min.	
Alternator Rating		130 amp	
Lights			
Standard		Grille mounted (2), cab mounted (6), and engine compartment (1)	
Optional		LED grille mounted (2), LED cab mounted (8), and engine compartment (1)	
Undercarriage			
Tracks		Track frame includes fixed 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 moderate service with clipped corners	
Track Gauge		2641.6 mm (104 in.)	2641.6 mm (104 in.)
Grouser Width		760 mm (30 in.)	915 mm (36 in.) (1) and 965 mm (38 in.) (1)
Chain		Sealed and lubricated; positive pin retention	Sealed and lubricated; positive pin retention
Shoes, Each Side		49	49
Track Rollers, Each Side		9	9
Track Length on Ground		3734 mm (147 in.)	3734 mm (147 in.)
Ground Contact Area		63 477 cm² (9,839 sq. in.)	78 284 cm² (12,134 sq. in.)
Ground Pressure		55.1 kPa (8.0 psi)	46.9 kPa (6.8 psi)
Track Pitch		215.9 mm (8.5 in.)	215.9 mm (8.5 in.)

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Operator Station PL220

Rollover protective structure (ROPS) (ISO 3471 – 2008) and falling object protective structure (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	60.8 L (16.1 gal.)
Reservoir With Filter (oil volume of tank only)	
Transmission	149 L (39.44 gal.)
Hydraulic	87 L (23 gal.)

Operating Capacity

Lift Capacity at 1219-mm (4 ft.) Overhang

Maximum	99 790 kg (220,000 lb.)
Rated	84 821 kg (187,000 lb.)

Operating Weights

Base Weight (includes standard equipment, ROPS, 915-mm (36 in.) track shoes, rear drawbar hitch, full fuel tank, and 79-kg [175 lb.] operator)

Operating Weight, Full Sideboom Installed	58 356 kg (128,652 lb.)
Transport Weight, Without Boom and Counterweight	43 768 kg (96,492 lb.)
Pipelay (PL)-Ready Tractor Only Weight	36 639 kg (80,775 lb.)

Optional Components

Rear Counterweight	2232 kg (4,921 lb.)
Retrieval Hitch (standard drawbar on counterweight)	65 kg (143 lb.)
Winch With 3-Roller Fairlead	1905 kg (4,200 lb.)
Mounting Plate	1115 kg (2,458 lb.)

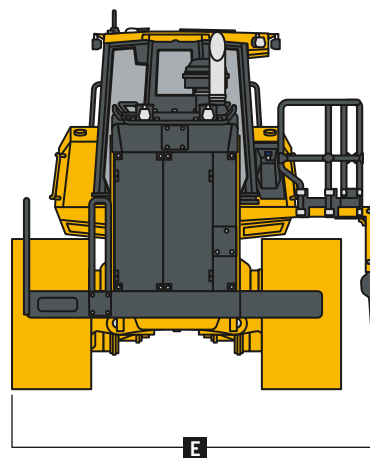
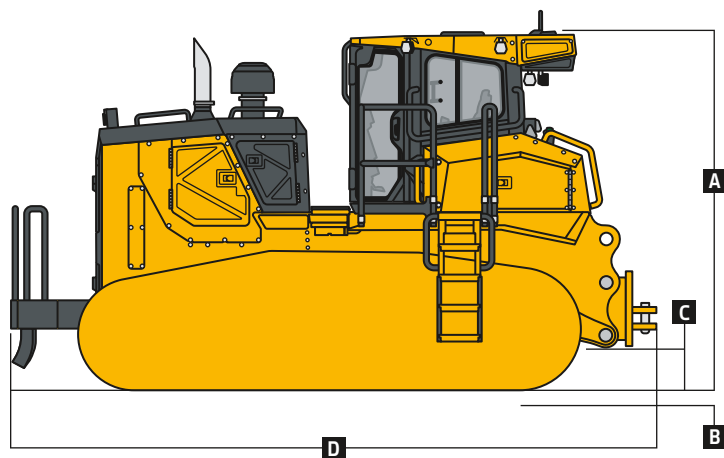
Optional Components (continued)

Heating, Ventilating, and Air-Conditioning (HVAC) Powered Precleaner	20 kg (44 lb.)
Moderate-Duty Track Shoes	
760 mm (30 in.)	–722 kg (–1,592 lb.)
915 mm (36 in.)	In base
910 mm (36 in.) (1) and 960 mm (38 in.) (1)	118 kg (260 lb.)

Machine Dimensions

			915 mm (36 in.) (1)
			and 965 mm (38 in.) (1)
Grouser Width	760 mm (30 in.)	915 mm (36 in.)	
A Overall Height to Roof	3476 mm (11 ft. 5 in.)	3476 mm (11 ft. 5 in.)	3476 mm (11 ft. 5 in.)
B Tread Depth With Single-Bar, Moderate-Duty Grouser	71 mm (2.8 in.)	71 mm (2.8 in.)	71 mm (2.8 in.)
C Ground Clearance in Dirt (includes grouser height)	523 mm (20.6 in.)	523 mm (20.6 in.)	523 mm (20.6 in.)
D Overall Length With Drawbar (standard configuration)	6385 mm (251 in.) (20 ft. 11 in.)	6385 mm (251 in.) (20 ft. 11 in.)	6385 mm (251 in.) (20 ft. 11 in.)
Overall Length With Winch and Fairlead Rollers ¹	7174 mm (282 in.) (23 ft. 6 in.)	7174 mm (282 in.) (23 ft. 6 in.)	7174 mm (282 in.) (23 ft. 6 in.)
E Overall Width (no boom or counterweight)	3746 mm (147 in.) (12 ft. 3 in.)	3823 mm (151 in.) (12 ft. 6 in.)	3848 mm (152 in.) (12 ft. 7 in.)

¹Overall length may vary for optional configurations.



Rear Ripper (single shank)

PL220

No ripper is offered on pipelayer.

Pipelaying Equipment

Reference individual supplier brochures for boom, drum, and counterweight specs.



DKAPLDZR (26-03)



JOHN DEERE