

Specifications

Engine

755D

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| Manufacturer and Model | John Deere PowerTech™ 6068H with variable-geometry turbocharger, exhaust gas recirculation, and air-to-air aftercooler |
| Non-Road Emission Standards | certified to EPA Tier 3 emissions |
| Cylinders | 6 |
| Displacement | 415 cu. in. (6.8 L) |
| Net Rated Power (ISO9249) | 181 hp (135 kW) @ 1,800 rpm |
| Net Peak Torque (ISO9249) | 688 lb.-ft. (933 Nm) @ 1,400 rpm |
| Lubrication | pressure system with full-flow spin-on filter and oil-to-water cooler; pressure lubrication for operation to 45 deg. |
| Air Cleaner | dual safety element, dry type with automatic dust ejector |

Cooling

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| Hydraulic drive, hinged, reinforced radiator guard | |
| Hydraulic/Transmission Cooling | oil-to-air heater exchanger |
| Engine Coolant Rating | -34 deg. F (-37 deg. C) |

Powertrain

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| Transmission | dual-path, electronic-controlled, closed-loop hydrostatic drive; load-sensing feature automatically adjusts speed and power to match changing load conditions; each track is powered by a variable-displacement pump and motor combination |
| Maximum Travel Speeds, Infinitely Variable, Forward and Reverse | |
| Low Speed | 4.0 mph (6.4 km/h) |
| High Speed | 6.2 mph (10.0 km/h) |
| Steering | fully modulated, infinitely variable, pedal steering allows for full power turns and counterrotation; infinitely variable track speeds provide unlimited maneuverability and optimum control; hydrostatic steering eliminates steering clutches and brakes |
| Final Drives | combination spur gear with double-reduction planetary gear mounted to mainframe; double sealed (duo-cone seals) with electronic seal-integrity indicator |
| Brakes | hydrostatic (dynamic) braking stops the machine whenever the direction-control lever is moved to neutral or whenever the combined decelerator/brake pedal is fully depressed |
| Parking Brakes | wet, multi-disc brakes applied automatically whenever the engine stops, whenever the decelerator/brake pedal is depressed to brake position, whenever the park lock lever is placed in the start position, whenever the emergency stop switch is pushed, whenever the F-N-R control is in the neutral position for more than seven seconds, or whenever machine motion is sensed with F-N-R in neutral position; machine cannot be driven with brake applied, reducing wear out or need for adjustment |

Hydraulics

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| Variable-displacement piston pump with load-sensing proportional pump flow control | |
| Pump Flow | 55 gpm (209 L/min.) @ 1,900 rpm |
| System Relief Pressure | 3,770 psi (25 993 kPa) |
| Return Oil Filters (2), Spin-On with Magnetic Particle Attractors | 11 micron |
| Single Joystick Lever | single-lever control for all bucket functions with magnetic detent for float, automatic bucket return to dig and automatic boom-height kickout |

Electrical

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| Voltage | 24 volt |
| Number of Batteries | 2 |
| Battery Capacity | 1,000 CCA |
| Alternator Rating | 80 amp |
| Lights (6 total) | front (4) and rear (2) |

Undercarriage

755D

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| Tracks | features deep-heat-treated pins and bushings sealed for life; rollers and idlers permanently sealed and lubricated | |
| Sprocket | segmented | |
| Segments (each side) | 5 | |
| Track Gauge (standard) | 5 ft. 11 in. (1803 mm) | |
| Chain | sealed and lubricated | |
| Shoes (each side) | 38 | |
| Bottom Rollers, Double Flange (each side) | 6 | |
| Carrier Rollers (each side) | 1 | |
| Ground Contact Area | | |
| 20-in. (508 mm) Grouser Width (closed center, double bar) | 4,050 sq. in. (26 129 cm ²) | |
| 22-in. (560 mm) Grouser Width (closed center, double bar) | 4,454 sq. in. (28 735 cm ²) | |
| Ground Clearance, Minimum with Double-Bar Grouser (excluding grouser height) | 18 in. (457.2 mm) | |
| Track Length on Ground | 101 in. (2565 mm) | |
| Track Pitch | 8 in. (203 mm) | |
| Ground Pressure | | |
| With Standard Equipment, Cab, Bucket, Full Fuel Tank, and 175-lb. (79 kg) Operator | <i>standard bucket with bolt-on teeth</i> | <i>multipurpose bucket with bolt-on teeth</i> |
| 20-in. (508 mm) Double-Grouser Shoes | 11.3 psi (78 kPa) | 11.6 psi (80 kPa) |
| 22-in. (560 mm) Double-Grouser Shoes | 10.3 psi (71 kPa) | 10.5 psi (72 kPa) |

Serviceability

Integral bottom engine protection; hydraulic hose "O"-ring face-seal connectors; vertically mounted hydraulic filter

Refill Capacities*

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|---|-------------------|
| Fuel Tank | 95.1 gal. (360 L) |
| Cooling System with Recovery Tank | 5.4 gal. (20.5 L) |
| Splitter Drive | 3.3 qt. (3.1 L) |
| Engine Oil (including filter) | 7.3 gal. (27.5 L) |
| Final Drive (each) | 4.5 gal. (17 L) |
| Transmission/Hydraulic Reservoir (including filter) | 22 gal. (83 L) |
| Transmission/Hydraulic System (total contents) | 50.7 gal. (192 L) |
| Pivot Shaft (fill – no drain) (each side) | 5.3 qt. (5 L) |
| Dual-Cone Seal (each side) | 3.5 qt. (3.3 L) |

*Please follow drain and refill procedures and volumes listed in the operator's manual.

Operating Weights

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| With Standard Equipment, Cab, 20-in. (508 mm) Double-Grouser Track Shoes; 2,090-lb. (948 kg) Integral Counterweight; Full Fuel Tank, and 175-lb. (79 kg) Operator | 46,255 lb. (20 981 kg) |
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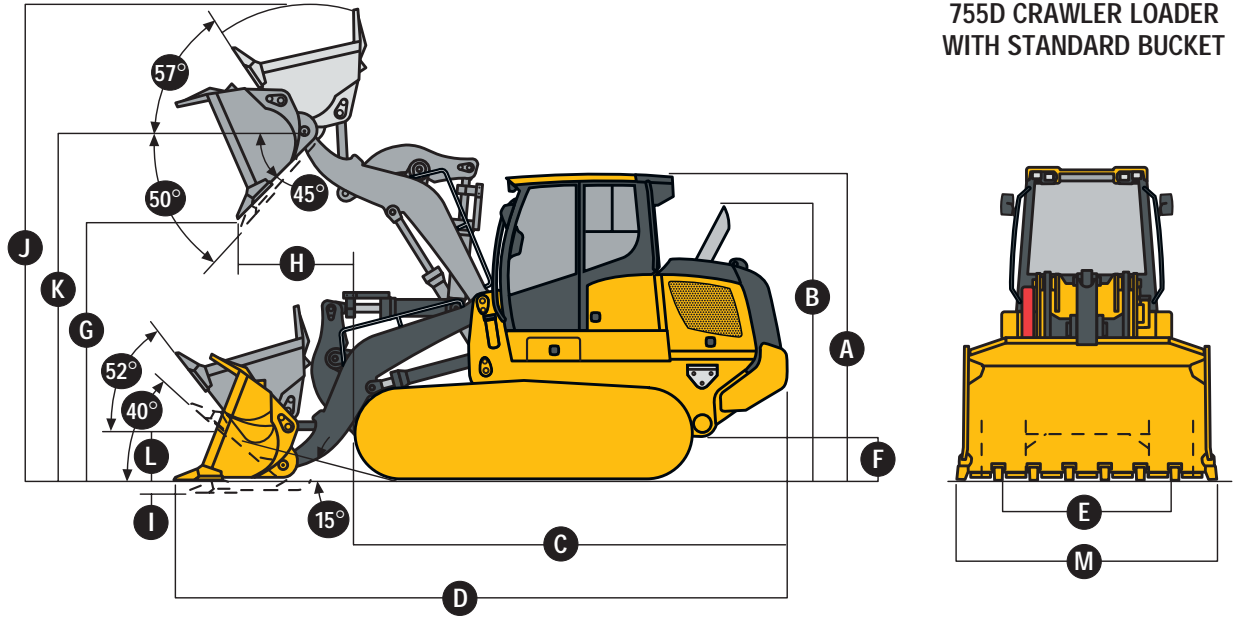
Optional Components

Add (+) or deduct (–) lb. (kg) as indicated to base weight for units with

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| 20-in. (508 mm) Track Shoes | in base |
| 22-in. (560 mm) Track Shoes | 326 lb. (148 kg) |
| Bolt-On Rock Guards | 245 lb. (111 kg) |
| Bottom Tank Guards | 613 lb. (278 kg) |
| Heavy-Duty Grille Guard | 161 lb. (73 kg) |
| Hydraulic Controls | |
| For Front Attachment | 115 lb. (52 kg) |
| For Rear Attachment | 106 lb. (48 kg) |
| Multipurpose Bucket with Bolt-On Teeth | 1,195 lb. (542 kg) |
| Ripper, Three Shank* | – 157 lb. (– 71 kg) |
| Segmented Cutting Edges | 256 lb. (116 kg) |

*Heavy-duty rear bumper and counterweight are removed when the ripper is added.

**755D CRAWLER LOADER
WITH STANDARD BUCKET**



Machine Dimensions

755D

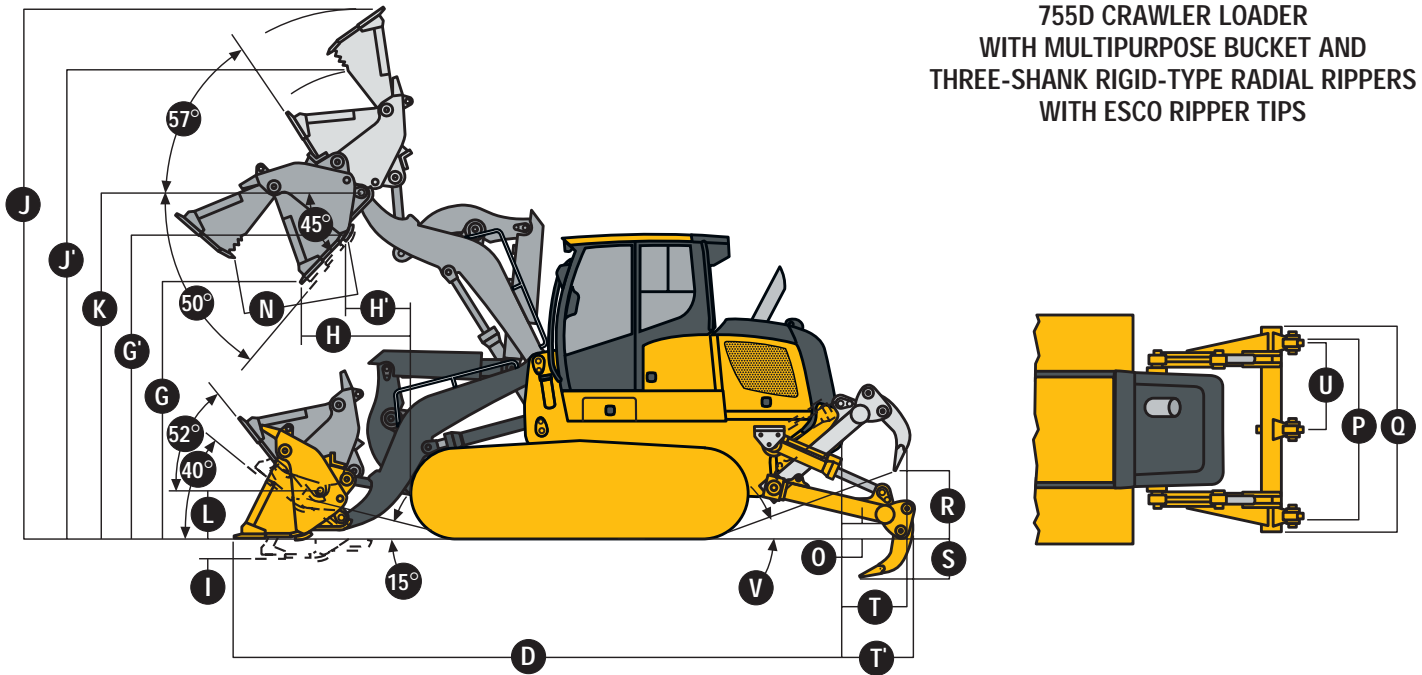
Cab

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| A Overall Height (cab with grousers) | 10 ft. 10 in. (3.31 m) |
| B Height Over Exhaust Pipe | 9 ft. 8 in. (2.95 m) |
| C Length to Front of Track | 16 ft. 0 in. (4.87 m) |
| D Overall Length (with bucket). | 22 ft. 6 in. (6.85 m) |
| E Track Gauge. | 5 ft. 11 in. (1.80 m) |
| F Ground Clearance. | 18 in. (458 mm) |
| Machine Width with 20-in. (508 mm) Shoes. | 7 ft. 7 in. (2.31 m) |

Standard Bucket with Bolt-On Teeth

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| Capacity Heaped | 3.14 cu. yd. (2.4 m ³) |
| Breakout Force (ISO8313). | 36,869 lb. (164 kN) |
| Static Tipping Load (ISO8313) | 31,597 lb. (14 332 kg) |
| Bucket Weight | 3,757 lb. (1704 kg) |
| G Dumping Height at 45 deg. (ISO7131) | 9 ft. 9 in. (2.98 m) |
| H Reach at 45 deg. | 4 ft. 0 in. (1.21 m) |
| I Maximum Digging Depth Below Grade | 6 in. (150 mm) |
| J Maximum Operating Height (bucket at full lift) | 18 ft. 1 in. (5.50 m) |
| K Maximum Height at Hinge Pin | 13 ft. 4 in. (4.05 m) |
| L Height at Hinge Pin (transport position) | 23 in. (576 mm) |
| M Width of Bucket | 8 ft. 4 in. (2.53 m) |

**755D CRAWLER LOADER
WITH MULTIPURPOSE BUCKET AND
THREE-SHANK RIGID-TYPE RADIAL RIPPER
WITH ESCO RIPPER TIPS**



Multipurpose Bucket with Bolt-On Teeth

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| Capacity Heaped | 2.62 cu. yd. (2.0 m ³) |
| Breakout Force (ISO8313) | 34,845 lb. (155 kN) |
| Static Tipping Load (ISO8313) | 28,989 lb. (13 149 kg) |
| Bucket Weight | 4,954 lb. (2247 kg) |
| D Overall Length (with bucket) | 23 ft. 1 in. (7.04 m) |
| G Dumping Height at 45 deg. (ISO7131) — Bucket | 9 ft. 9 in. (2.98 m) |
| G' Dumping Height at 45 deg. (ISO7131) — Blade | 11 ft. 9 in. (3.58 m) |
| H Reach at 45 deg. — Bucket | 4 ft. 0 in. (1.20 m) |
| H' Reach at 45 deg. — Blade | 2 ft. 2 in. (661 mm) |
| I Maximum Digging Depth Below Grade | 8.66 in. (220 mm) |
| J Maximum Operating Height (bucket at full lift) | |
| — Bucket Open | 20 ft. 3 in. (6.16 m) |
| J' Maximum Operating Height (bucket at full lift) | |
| — Bucket Closed | 18 ft. 0 in. (5.46 m) |
| K Maximum Height at Hinge Pin | 13 ft. 4 in. (4.05 m) |
| L Height at Hinge Pin (transport position) | 23 in. (576 mm) |
| N Width of Opening | 4 ft. 3 in. (1.29 m) |

Rear Ripper

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| Three-shank rigid-type radial ripper with ESCO ripper tips | |
| Weight | 2,590 lb. (1175 kg) |
| O Ground Clearance Below Toolbar | 33 in. (826 mm) |
| P Ripping Width | 6 ft. 5 in. (1.96 m) |
| Q Toolbar Width | 7 ft. 0 in. (2.10 m) |
| R Lifting Height | 33 in. (826 mm) |
| S Ripping Depth | 15 in. (390 mm) |
| T Additional Length Overall — Raised | 29 in. (740 mm) |
| T' Additional Length Overall — Transport | 30 in. (760 mm) |
| U Distance between Teeth | 35 in. (900 mm) |
| V Approach Angle (ripper raised) | 20 deg. |

755D CRAWLER LOADER

Key: ● Standard equipment ▲ Optional or special equipment

*See your John Deere dealer for further information.

755D Engine

- Certified to EPA Tier 3 emissions
- Direct-injection, intercooled, turbocharged John Deere PowerTech™ 6068H
- Vertical spin-on engine oil filter
- Vertical spin-on dual-stage fuel filter with water sensor
- Dual-element dry-type aspirated air cleaner with automatic dust ejector
- Cold-start-aid glow plugs
- Electric fuel primer
- Electronic engine throttle control
- Environmental drain for engine oil

Cooling

- Engine coolant rated -34 deg. F (-37 deg. C)
- Hydraulically driven, front-mounted suction-type cooling fan
- Radiator, heavy-duty, 5 fins per in.
- Transmission oil cooler with hydraulically driven cooling fan
- Transmission cooler rated 5 fins per in.

Powertrain

- Dual-path hydrostatic transmission
- Automatic load sensing for speed and power management
- Single-lever V-pattern F-N-R
- Pedal steer with full power turn and counter-rotation
- Double-sealed (duo-cone seals) with electronic seal-integrity indicator
- Automatic spring-applied, hydraulic-released park brake

Hydraulics

- Load-sensing proportional flow pump
- 55-gpm (209 L/min.) pump flow
- Pilot-pressure control system
- Two-function hydraulic valve with quick-drop blade feature; single-lever blade control compatible for additional functions
- 11-micron replaceable spin-on element filter
- "O"-ring seal connectors

Electrical

- 24-volt system
- 80-amp alternator
- Dual 1,000-CCA batteries
- Circuit breakers

755D Electrical (continued)

- Positive-terminal battery covers
- Electrically activated battery master disconnect
- Backup warning alarm
- Cab work lights (6), front (4) and rear (2)

Undercarriage

- Oscillating track frames
- Heavy-duty, sealed and lubricated track chain
- Hydraulic track adjusters with hinged dirt cover
- Front idler and sprocket chain guides
- Integrated track frame cover
- Standard track frame, 5-ft. 11-in. (1803 mm) gauge
- 20-in. (508 mm) grouser width (closed center double bar)
- ▲ 20-in. (508 mm) grouser width (open center double bar with trapezoidal holes)
- ▲ 22-in. (560 mm) grouser width (closed center double bar)
- ▲ 22-in. (560 mm) grouser width (open center double bar with trapezoidal holes)
- ▲ Extended life undercarriage SC-2™ bushings
- ▲ Sprocket segments with recesses
- ▲ Rock guards

Loader

- Return-to-dig feature
- Bucket-level indicator
- Electrically controlled bucket float
- Single-lever control
- Lubricated lower bucket pins
- Loader boom service lock
- Boom-height-limit devices

Operator Station

- Modular-design ROPS/FOPS isolation-mounted cab with left and right access
- Heater and air conditioning, pressurized and filtered
- Ventilation with 3-speed blower
- Front and rear windshield wipers with intermittent speed
- Dome light; pull-down sunshade; sliding side windows; rubber floor mats; interior-mounted rearview mirror; built-in operator's manual storage compartment with manual
- Slip-resistant steps and ergonomically located handholds

755D Operator Station (continued)

- Deluxe suspension fabric seat; adjustable backrest, height, weight, and fore-aft with seat-cushion tilt
- Adjustable armrests
- Seat belt, 2 in. (50 mm), with retractor
- Electronic monitor system with audible and visual warning for voltage indicator; transmission/hydraulic charge oil pressure; coolant/charge air/oil temperature; engine air filter restriction; final-drive seal leak indicator; ECU indicator; fuel/water separator
- Indicators for engine rpm and hydraulic/hydrostatic oil temperature
- Gauges, electric, illuminated for engine coolant temperature; fuel gauge; hour meter
- ▲ Hydraulic oil temperature gauge
- Radio prepared and 12-volt power port
- ▲ AM/FM radio

Overall Vehicle

- One-piece unitized mainframe
- On-board cab-tilt system for full access to hydrostatic motors
- Reinforced engine bottom guards
- Heavy-duty rear bumper
- Rear retrieval hitch with pin
- Locking vandal protection for engine-access doors, and hydraulic- and transmission-access door
- Storage compartments (2)
- Fuel tank with wide-mouth filler cap
- Diagnostic ports
- ▲ Tank guard
- ▲ Extreme-duty radiator grille
- ▲ JDLink™

Front Attachments

- ▲ 3.1-cu.-yd. (2.4 m³) general-purpose bucket with teeth, back-drag edge
- ▲ 2.6-cu.-yd. (2.0 m³) multi-purpose bucket with teeth
- ▲ Segmented cutting edge
- ▲ Auxiliary controls and plumbing for front/rear attachments
- ▲ Tilt-cylinder protection
- ▲ Lift-cylinder line protection
- ▲ Debris shield for lift-cylinder openings

Rear Attachments

- ▲ Three-shank ripper

CONTROL OWNING AND OPERATING COSTS

Customer Personal Service (CPS) is part of John Deere's proactive, fix-before-fail strategy on machine maintenance that will help control costs, increase profits, and reduce stress. Included in this comprehensive lineup of ongoing programs and services are:

Fluid analysis program – tells you what's going on inside *all* of your machine's major components so you'll know if there's a problem *before* you see a decline in performance. Fluid analysis is included in most extended coverage and preventive-maintenance agreements.

Component life-cycle data – gives you vital information on the projected life span of components and lets you make informed decisions on machine maintenance by telling you approximately how many hours of use you can expect from an engine, transmission, or hydraulic pump. This information can be used to preempt catastrophic downtime by servicing major components at about 80 percent of their life cycle.

Preventive Maintenance (PM) agreements – give you a fixed cost for maintaining a machine for a given period of time. They also help you avoid downtime by ensuring that critical maintenance

work gets done right and on schedule. On-site preventive maintenance service performed where and when you need it helps protect you from the expense of catastrophic failures and lets you avoid waste-disposal hassles.

Extended coverage – gives you a fixed cost for machine repairs for a given period of time so you can effectively manage costs. Whether you work in a severe-service setting or just want to spread the risk of doing business, this is a great way to custom-fit coverage for your operation. And an extended coverage contract also travels well because it's backed by John Deere and is honored by *all* Deere construction dealers.

Customer Support Advisors (CSAs) – Deere believes the CSA program lends a *personal* quality to Customer Personal Service (CPS). Certified CSAs have the knowledge and skills for helping make important decisions on machine maintenance and repair. Their mission is to help you implement a plan that's right for *your* business and take the burden of machine maintenance off your shoulders.



JOHN DEERE

DKA755D Litho in U.S.A. (07-07)

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 10,000-ft. (3050 m) 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, 20-in. (508 mm) track grouser shoes, modular cab with air conditioning, 3.14-cu.-yd. (2.4 m³) bucket, full fuel tank, and 175-lb. (79 kg) operator.

