

DEVELON

Wheel Loader

DL200-7



Engine

Make	Perkins
Model	1204F
Number of cylinders	4
Rated power, gross (hp per SAE J1995)	142.1 hp (106 kW) @ 2200 rpm
Rated power, net (hp per SAE J1349)	142.1 hp (106 kW) @ 2200 rpm
Max. torque, net (SAE J1995)	413 lbf. ft (560 kg·m) @ 1400 rpm
Displacement	269 in. ³ (4.4 L)
Bore and stroke	4.1 in. x 5.0 in. (105 mm x 127 mm)
Starter	24 V, 7.4 hp (5.5 kW)
Battery (qty 2)	2 x 12 V, 100 AH
Alternator	24 V, 85 amp
Air cleaner	Double elements

Hydraulics

Main pumps	40.95 gpm (155 L/min.)
System pressure (work)	3843 psi (265 bar)
System pressure (steer)	2830 psi (195 bar)
Boom speed – up	5.6 sec
Boom speed – down	2.8 sec
Bucket speed – crowd	1.7 sec
Bucket speed – dump	1.4 sec

Travel Speeds

Travel speed – forward (4)	1.2–8.1 / 8.1 / 12.4 / 23.61 mph (2–13 / 13 / 20 / 38 km/h)
Travel speed – reverse (3)	1.2–8.1 / 8.1 / 12.4 mph (2–13 / 13 / 20 km/h)
Max. grade	58% (30°)

Environment

Sound level (2000/14/EC)	102 dB(A)
Cabin sound level (ISO 6396)	68 dB(A)

Refill Capacities

Fuel tank	62.08 gal. (235 L)
DEF tank	5.02 gal. (19 L)
Cooling system (radiator capacity)	8.61 gal. (32.6 L)
Engine oil	3.1 gal. (11.8 L)
Transmission	–
Front axle	4.0 gal. (15 L)
Rear axles	4.5 gal. (17 L)
Hydraulic system	31.7 gal. (120 L)

Hydraulic Cylinders

Steering (2) bore x rod diameter x stroke	2.8 in. x 1.4 in. x 14.4 in. (70 mm x 35 mm x 366 mm)
Lift arm (2) bore x rod diameter x stroke	4.5 in. x 3.0 in. x 26.6 in. (115 mm x 75 mm x 676 mm)
Bucket (1) bore x rod diameter x stroke	4.7 in. x 3.0 in. x 20.0 in. (120 mm x 75 mm x 509 mm)

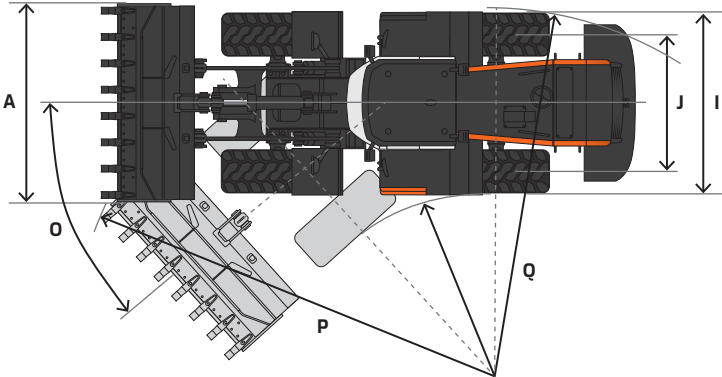
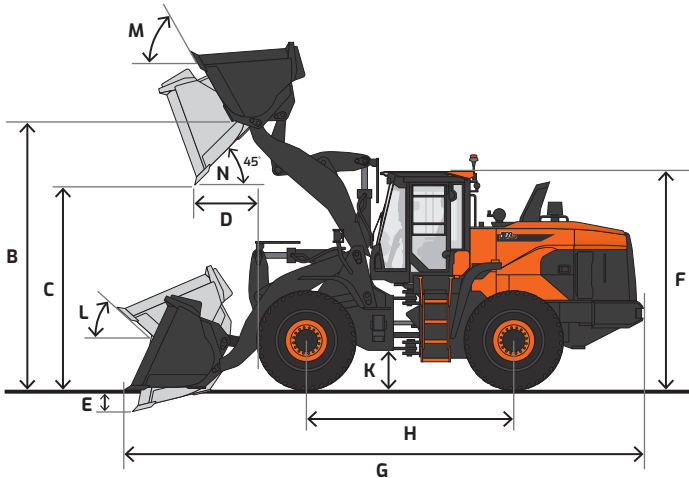
The piston rods and cylinder bodies are made of high-strength steel. A shock-absorbing mechanism is fitted in at the base and rod end of the lift and bucket cylinders and the rod end of the steering cylinders to ensure shock-free operation and extended piston life.

NOTE: Where applicable, dimensions are in accordance with Society of Automotive Engineers (SAE) and ISO standards. Specifications and design are subject to change without notice. Pictures of DEVELON wheel loaders may show other than standard equipment. All dimensions are shown in inches. Respective metric dimensions are enclosed by parentheses. DEVELON construction equipment is manufactured with a Quality Management System that is in compliance with ISO 9001:2008. All dimensions are given for DEVELON wheel loaders equipped with standard tires.

Dimensions

		Standard Arm	High-Lift
Bucket capacity, heaped ISO/SAE		2.62 yd³ (2.0 m³)	
Bucket width	A	8' 4" (2550 mm)	
Max. hinge pin height	B	12' 3" (3735 mm)	13' 10" (4210 mm)
Dump height (45°) – fully raised	C	9' 0" (2765 mm)	10' 8" (3245 mm)
Dump reach (45°) – fully raised	D	3' 3" (1005 mm)	3' 3" (995 mm)
Digging depth	E	2" (58 mm)	7" (200 mm)
Overall height, ROPS cabin	F	10' 10" (3313 mm)	
Overall length	G	23' 6" (7175 mm)	25' (7615 mm)
Wheel base	H	9' 9" (2980 mm)	
Width at tires	I	8' 4" (2530 mm)	
Tread width	J	6' 3" (1930 mm)	
Ground clearance	K	1' 5" (434 mm)	
Max. tilt angle on ground		43°	
Max. tilt angle at carry position	L	49°	51°
Max. tilt angle at fully raised	M	60°	63°
Max. dump angle at fully raised	N	46°	45°
Max. steering angle	O	40°	
External turning radius, bucket edge	P	19' 1" (5835 mm)	19' 10" (6035 mm)
External turning radius, outside tire	Q	17' 7" (5365 mm)	
Tire size		20.5R25 L3	
Operating weight		26559 lb. (12047 kg)	27189 lb. (12233 kg)
Static tipping load (straight)		22315 lb. (10122 kg)	18373 lb. (8334 kg)
Static tipping load (at full turn)		19705 lb. (8938 kg)	16224 lb. (7359 kg)
Breakout force		21806 lbf. (97 kn)	23380 lbf. (106 kn)

Front Lift Arm Configuration
Standard: U510
High-Lift: U520



Standard & Optional Equipment

Standard Base Package, US10

■ Standard ● Optional — N/A

Engine

Emissions, T4 (EPA)	■
High-pressure common-rail (HPCR)	■
Cooled exhaust gas recirculation (CEGR)	■
Diesel oxidation catalyst (DOC)	■
Selective catalyst reduction (SCR)	■
Diesel exhaust fluid (DEF)	■
Diesel particulate filter (DPF)	■
Fuel filter with water separator	■
Coolant recovery tank	■
Dual element dry-type air filter with evacuator	■
Precleaner	■
Electronic engine control (ECU)	■
Auto idle (working to standby)	■
Auto shutdown (time adjustable)	■
Overheat & low oil pressure engine protection	■
Cooling fan – radiator, variable speed	■
Cooling fan – radiator, automatic reversible	■
Remote drain port – engine oil	■
Block heater (110 V)	●

Hydraulic

Variable displacement axial piston pump	■
Closed-center system	■
Main control valves, pilot	■
Remote test ports	■
Remote drain port, hydraulic oil	■
Spring-applied hydraulic release brake	■
Auxiliary hydraulics (3rd valve)	■
Automatic boom/lift kick-out, adjustable (in cab)	■
Automatic return-to-dig position, adjustable	■
Boom float	■
Load isolation system	●

Electrical

System voltage – 24 V	■
Alternator – 24 V, 80 amp	■
2 x 12 V batteries, 100 AH reserve capacity, 900 CCA	■
Blade-type fuse panel	■
Main circuit breaker	■
Lights, work (LED): front (2), rear (2)	■
Lights, work (LED): front (4), rear (4)	●
Lights, work (LED): front (6), rear (6)	●
Lights, headlights (halogen) – hi/lo beams (2)	■
Lights, stop, tail & direction indicators	■
Horn	■
Rotating beacon	●
Hour meter	■
Engine restart prevention system	■
Rearview camera	■
Laptop service port	■
Self-diagnostics system	■

Cabin

Steel, all-weather & sound-suppressed	■
ROPS (ISO 3471)	■
FOPS (ISO 3449, level II)	■
Front window with wiper/washer	■
Rear window with wiper	■
Tinted safety glass	■
Visor, retractable	■
Adjustable sliding side door window	■
Defrost, front window	■
Lockable doors	■
Seat	■
- Air suspension	
- 2" (51 mm) seat belt	
- Adjustable height & recline	
- Adjustable fore/aft	
- Adjustable armrests	
Control stands	■
- Height adjustable	
- Fore/aft adjustable	
Storage for operator's manuals	■
Mirror, interior rearview (1)	■
Mirror, exterior (2), heated	■
Mirror, exterior (2), heated (electronic adjustable)	●
Fully automatic HVAC with ambient temperature sensor	■
Smart Touch display	■
- 8" touch-enabled	
- Adjustable height & angle	
Transparent bucket	■
- Multi-camera system & controller	
- In-cab display	
AM/FM stereo with hands-free Bluetooth®	■
Speakers (2)	■
Antenna, roof-mounted	■
Emergency breakout tool	■
Hot/cold beverage compartment	■
Power socket, 12 V	■
Power socket, USB	■
Cup holder	■
Interior light	■
Coat hanger	■

Controls

Adjustable steering column	■
- Tilting	
- Telescoping	
Emergency secondary steering	●
Throttle pedal (accelerator)	■
Brake pedal, right	■
Brake pedal, left	●
Intelligent clutch cut-off	■
Gear selector (FNR)	■
Joystick control	■
Fingertip control (3-lever)	—
Switches, console-mounted	■
- Starter (button)	
- Parking brake	
- Pilot cutoff	
- Transmission cutoff	
- Work light	
- Reversible cooling fan	
Speed management	■
Traction control management	■
Emergency stop switch	■
Power mode (P, S, E)	■
Transmission mode	■
Wiper control panel	■
Audio control panel	■

Display Monitor & Warnings

Buzzer	
- Engine oil pressure	
- Coolant temperature	
- Transmission overheat	
Gauges	
- Fuel level	- ECO
- DEF level	- Smart guidance system
- Engine coolant temperature	- Digital clock
- Transmission oil temperature	- Trip meter
- Engine rpm	- Hour meter
- Speedometer	- Total operation time
- Transmission gear indicator	- Fuel consumption
- Battery voltage	
Warning & indicator lights	
- Seat belt	- Emergency steering
- Error code	- Hydraulic oil temperature
- SCR warning	- Hydraulic charge
- Check engine	pressure warning
- Engine oil pressure	- Hydraulic pilot filter
- Engine pre-heat engaged	- Hydraulic return filter
- Radiator coolant level	- Transmission mode
& temperature	- Transmission warning
- Air filter	- Transmission lock-up
- Fuel level	- Transmission oil temp
- DEF level – low	- Transmission gear indicator
- Water in fuel	- Brake fluid pressure warning
- Battery charge	- Reverse fan indicator
- Direction signal	- Mirror heat indicator
- Lights (high, main, work, beacon)	- Parking brake indicator
Back-up alarm	■
Scale system, integrated smart scale	●
Rollover protection warning	■
Around view monitor (AVM)	●

Frame & Driveline

Z-bar lift arm	■
Z-bar lift arm, high-lift	●
Steering cylinder, double-acting (2)	■
Transmission – 4F/3R speed	■
- Full automatic – power shift	
- Torque converter	
Transmission – hydrostat	■
- Dual motor	
Differentials	■
- Limited slip front/rear	
Hydraulic power steering	■
Inboard planetary axles	■
Fixed front axle	■
Oscillating rear axle	■
Parking brake, spring-applied hydraulic release	■
Sealed, self-adjusting brakes	■
Tires, 20.5R25 L3 radial standard	■
Outboard brakes	■
Dynamic braking	■

Other

Centralized lubrication	■
Air compressor	●
Handrails, entrance & service steps	■
Handrails, roof-mounted	●
Roof cover	●
Skid-resistant entrance steps	■
Skid-resistant service platforms	■
Drawbar & pin	■
Wheel chocks	■
Rear fender, full	●
Additional counterweight	● ¹
Manuals	■
- Operation & Maintenance	
- Parts	
- AEM Safety Manual	
DEVELON Fleet Management	■
Vandalism protection	■
- Lockable panels	
- Lockable fluid fill points	
- Anti-theft protection (password)	

¹ Standard on high-lift models

² Dealer-installed only

Certain specification(s) are based on engineering calculations and are not actual measurements. Specification(s) are provided for comparison purposes only and are subject to change without notice. Specification(s) for your individual DEVELON equipment will vary based on normal variations in design, manufacturing, operating conditions, and other factors. Pictures of DEVELON units may show other than standard equipment.

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DEVELON

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DL200-7 Wheel Loader Spec Sheet
Printed in the U.S.A.
23906_004_D072723

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