

# DEVELON

## Crawler Excavator

# DX200LC-7



### Engine

Make	Perkins
Model	1204J
Number of cylinders	4
Rated power, gross (hp per SAE J1995)	147.5 hp (110.0 kW) @ 2000 rpm
Rated power, net (hp per SAE J1349)	138.1 hp (103.0 kW) @ 2000 rpm
Max. torque, gross (SAE J1995)	413.0 ft.-lb. (560.0 Nm) @ 1400 rpm
Displacement	268.5 in. <sup>3</sup> (4.4 L)
Bore and stroke	4.1" x 5.0" (105 mm x 127 mm)
Starter	24 V, 6.0 hp (4.5 kW)
Battery	2 x 12 V, 100 AH
Alternator	24 V, 85 A
Air cleaner	Three-stage

### Hydraulics

Main pumps	2 x 56.0 gpm (2 x 212.0 L/min.)
Pilot pump (gear design)	7.9 gpm (30.0 L/min.)

### Working Pressure

Boom/arm/bucket (normal mode)	4978.2 psi (350.0 kg/cm <sup>2</sup> )
Boom/arm/bucket (power boost)	5262.6 psi (370.0 kg/cm <sup>2</sup> )
Travel	5262.6 psi (370.0 kg/cm <sup>2</sup> )
Swing	3982.5 psi (280.0 kg/cm <sup>2</sup> )
Pilot	568.9 psi (40.0 kg/cm <sup>2</sup> )

### Undercarriage

Upper rollers (each track)	2
Lower rollers (each track)	8
Number of shoes (links per side)	49

### Swing Mechanism

Swing speed	0 – 11.1 rpm
Swing torque	63000.0 lbf.-ft. (8710.0 kgf.-m)

### Drive System

Travel speed (low – high)	1.9 – 3.5 mph (3.0 – 5.6 km/h)
Traction force, max. (drawbar pull)	60715.3 lbf. (27540.0 kgf)
Max. grade (limited by engine lub)	70% (35°)

### Environment

Sound level (2000/14/EC)	102 dB(A)
Cabin sound level (ISO 6396)	70 dB(A)

### Refill Capacities

Fuel tank	101.4 gal. (384.0 L)
DEF tank	4.0 gal. (15.0 L)
Cooling system (radiator capacity)	7.2 gal. (27.1 L)
Engine oil (with filter)	4.0 gal. (15.0 L)
Swing drive	1.3 gal. (5.0 L)
Final drive (each side)	1.1 gal. (4.0 L)
Hydraulic system	51.8 gal. (196.0 L)
Hydraulic tank	34.6 gal. (131.0 L)

All capacities are approximate values. Always refer to the machine's OM for exact refill levels. Check the dipstick, level eye, level plug, etc., to achieve the correct level.

### Hydraulic Cylinders

Boom <sup>1</sup> (2) bore x rod diameter x stroke	4.9" x 3.3" x 49.7" (125 mm x 85 mm x 1263 mm)
Arm <sup>1,2</sup> (1) bore x rod diameter x stroke	5.3" x 3.9" x 56.8" (135 mm x 100 mm x 1443 mm)
Bucket <sup>1</sup> (1) bore x rod diameter x stroke	4.7" x 3.1" x 41.7" (120 mm x 80 mm x 1060 mm)

<sup>1</sup> Cushion on rod end

<sup>2</sup> Cushion on base end

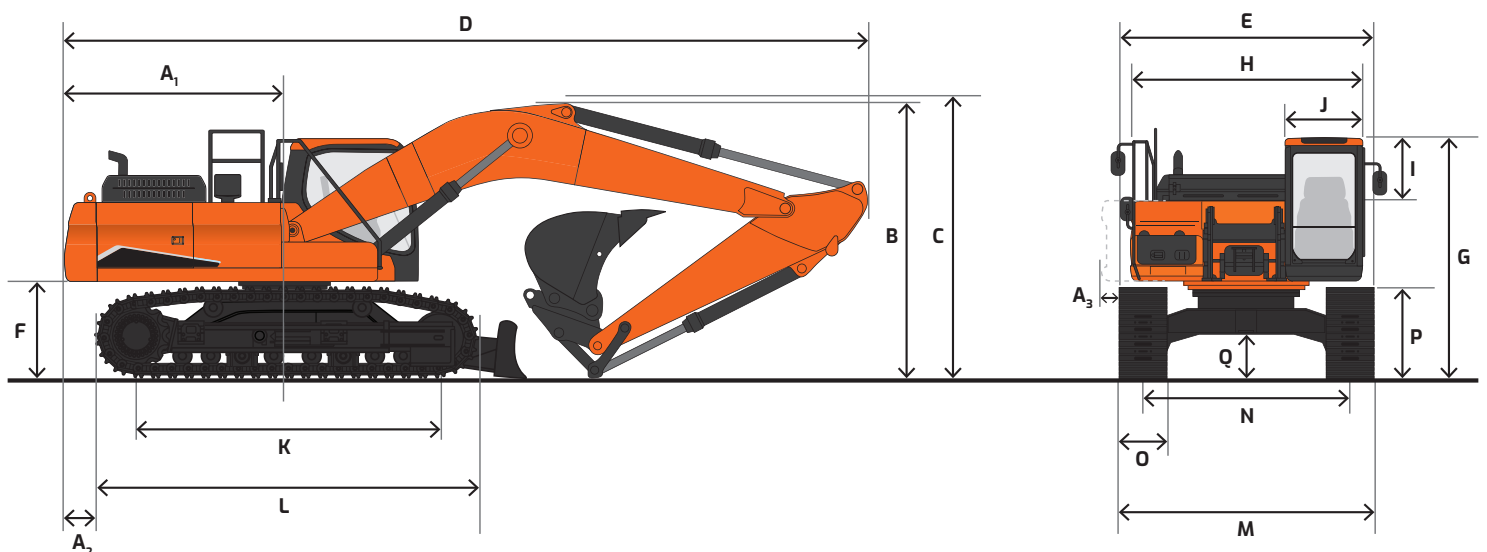
The piston rods and cylinder bodies are made of high-strength steel. A shock-absorbing mechanism is fitted in all cylinders to ensure shock-free operation and extended piston life.

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. All dimensions are given for DEVELON excavators equipped with standard tracks and the standard front as listed. Pictures of DEVELON excavators may show other than standard equipment. All dimensions are shown in inches. Respective metric dimensions are enclosed by parentheses. Rounding may impact specifications. DEVELON equipment is manufactured with a Quality Management System that is in compliance with ISO 9001:2008.

# Dimensions

		Standard Arm 31.5" (800 mm) TG Shoe (US20)	Long Arm 35.4" (900 mm) TG Shoe (US30)
Boom length		18' 8.4" (5700 mm)	
Arm length		7' 10.5" (2400 mm)	9' 6.2" (2900 mm)
Bucket size (SAE)		1.37 yd <sup>3</sup> (1.05 m <sup>3</sup> )	1.20 yd <sup>3</sup> (0.92 m <sup>3</sup> )
Tail swing radius	A <sub>1</sub>	9' 6.5" (2909 mm)	
Tail swing overhang (rear)	A <sub>2</sub>	2' 3.0" (686.5 mm)	
Tail swing overhang (side)	A <sub>3</sub>	4' 3.7" (1314 mm)	4' 1.8" (1264 mm)
Shipping height (boom)	B	9' 7.7" (2940 mm)	9' 5.8" (2890 mm)
Shipping height (hose)	C	10' 2.2" (3105 mm)	9' 10.3" (3005 mm)
Shipping length	D	31' 6.0" (9600 mm)	31' 4.8" (9570 mm)
Shipping width	E	10' 5.6" (3190 mm)	10' 9.5" (3290 mm)
Counterweight clearance	F	3' 7.0" (1092 mm)	
Cabin height	G	9' 9.3" (2980 mm)	
Upper structure width	H	8' 10.7" (2710 mm)	
Cabin height above house	I	2' 9.1" (840 mm)	
Cabin width	J	3' 3.8" (1010 mm)	
Tumbler distance	K	11' 11.7" (3650 mm)	
Overall track length	L	14' 7.0" (4445 mm)	
Undercarriage width	M	10' 5.6" (3190 mm)	10' 9.5" (3290 mm)
Track gauge width	N	7' 10.1" (2390 mm)	
Track shoe width	O	31.5" (800 mm)	34.5" (900 mm)
Track height	P	3' 1.2" (945 mm)	
Car body clearance*	Q	1' 5.7" (450.5 mm)	

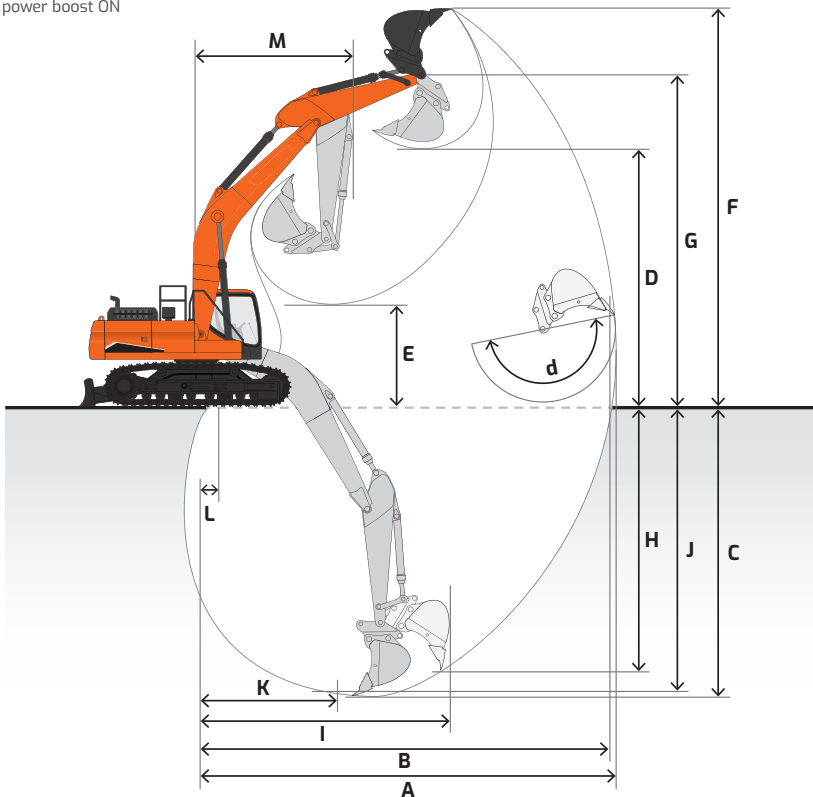
\*Without shoe grouser



# Working Range

		Standard Arm 31.5" (800 mm) TG Shoe (US20)	Long Arm 35.4" (900 mm) TG Shoe (US30)
Boom length		18' 8.4" (5700 mm)	
Arm length		7' 10.5" (2400 mm)	9' 6.2" (2900 mm)
Bucket size (SAE)		1.37 yd <sup>3</sup> (1.05 m <sup>3</sup> )	1.20 yd <sup>3</sup> (0.92 m <sup>3</sup> )
Counterweight		9480 lb. (4300 kg)	
Track type		Fixed	
Max. digging reach	A	31' 0.4" (9460 mm)	32' 4.4" (9865 mm)
Max. digging reach (ground)	B	30' 5.4" (9280 mm)	31' 9.7" (9695 mm)
Max. digging depth	C	20' 0.4" (6105 mm)	21' 7.4" (6590 mm)
Max. loading height	D	21' 10.8" (6675 mm)	22' 4.9" (6830 mm)
Min. loading height	E	9' 9.5" (2985 mm)	8' 2.4" (2500 mm)
Max. digging height	F	30' 11.1" (9425 mm)	31' 6.7" (9620 mm)
Max. bucket pin height	G	26' 8.1" (8130 mm)	27' 1.6" (8270 mm)
Max. vertical wall depth	H	17' 8.0" (5385 mm)	18' 1.5" (5525 mm)
Max. radius vertical	I	19' 9.2" (6025 mm)	21' 0.6" (6415 mm)
Max. depth to 8' line	J	19' 3.9" (5890 mm)	21' 11.8" (6395 mm)
Min. radius to 8' line	K	9' 3.8" (2840 mm)	9' 3.0" (2820 mm)
Min. digging reach	L	5' 6.5" (1690 mm)	1' 10.6" (575 mm)
Min. swing radius	M	11' 8.7" (3575 mm)	11' 8.1" (3560 mm)
Bucket angle (DEG)	d	177°	
Digging force, bucket*	ISO	36376.3 lbf. (16500 kgf)	
Digging force, arm*		29541.9 lbf. (13400 kgf)	25353.2 lbf. (11500 kgf)
Operating weight		50706 lb. (23000 kg)	51778 lb. (23486 kg)
Ground pressure		5.3 psi (0.37 kg/cm <sup>2</sup> )	4.8 psi (0.34 kg/cm <sup>2</sup> )

\*With power boost ON















# Lifting Capacity

 Rating over front     Rating over side or 360°

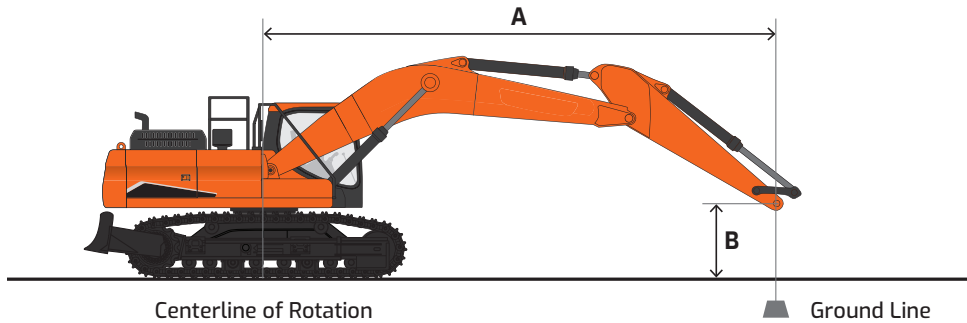
## DX200LC-7 US20

Boom: 18' 8.4" (5700 mm) | Arm: 7' 10.5" (2400 mm) | Counterweight: 9480 lb. (4300 kg) | 31.5" (800 mm) TG Shoes | Bucket: None | Unit: lb. (kg)

A (ft. or m) B (ft. or m)	5' (1.5 m)		10' (3.0 m)		15' (4.5 m)		20' (6.0 m)		25' (7.5 m)		Max. Reach		
													
25' (7.5 m)											* 12420 (* 5630)	* 12420 (* 5630)	18.4' (5.61 m)
20' (6.0 m)							* 11870 (* 5380)	* 11870 (* 5380)			* 11400 (* 5170)	10080 (4570)	22.38' (6.82 m)
15' (4.5 m)					* 15190 (* 6890)	* 15190 (* 6890)	* 12760 (* 5790)	12140 (5510)	* 11780 (* 5340)	8560 (3890)	* 11130 (* 5050)	8480 (3850)	24.75' (7.54 m)
10' (3.0 m)					* 18700 (* 8480)	17560 (7970)	* 14260 (* 6470)	11630 (5270)	* 12210 (* 5540)	8390 (3810)	* 11370 (* 5160)	7720 (3500)	25.99' (7.92 m)
5' (1.5 m)					* 21490 (* 9750)	16570 (7520)	* 15690 (* 7120)	11140 (5050)	12650 (5740)	8180 (3710)	11510 (5220)	7460 (3380)	26.25' (8.00 m)
Ground Level					* 22360 (* 10140)	16130 (7320)	* 16430 (* 7450)	10840 (4920)	12490 (5670)	8040 (3650)	11850 (5380)	7650 (3470)	25.56' (7.79 m)
-5' (-1.5 m)		* 21340 (* 9680)	* 21340 (* 9680)		* 21540 (* 9770)	16090 (7300)	* 16080 (* 7290)	10760 (4880)			* 12590 (* 5710)	8400 (3810)	23.84' (7.27 m)
-10' (-3.0 m)		* 25400 (* 11520)	* 25400 (* 11520)		* 18940 (* 8590)	16340 (7410)	* 13880 (* 6300)	10960 (4970)			* 12550 (* 5690)	10210 (4630)	20.84' (6.35 m)
-15' (-4.5 m)					* 12740 (* 5780)	* 12740 (* 5780)					* 11310 (* 5130)	* 11310 (* 5130)	15.82' (4.82 m)

A Distance from center of rotation  
B Height

NOTE: Lifting capacities are in compliance with SAE 1097 and ISO 10567. Machine in lifting mode with power boost turned on. Load point is the end of the arm. Rated loads shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacities. Rated loads marked with an asterisk (\*) are limited by hydraulic capacities. The least stable position is over the side. The total mass of machine includes the mass of the boom arm counterweight all operating fluids and 165 lb. (75 kg) operator.















# Lifting Capacity

 Rating over front     Rating over side or 360°

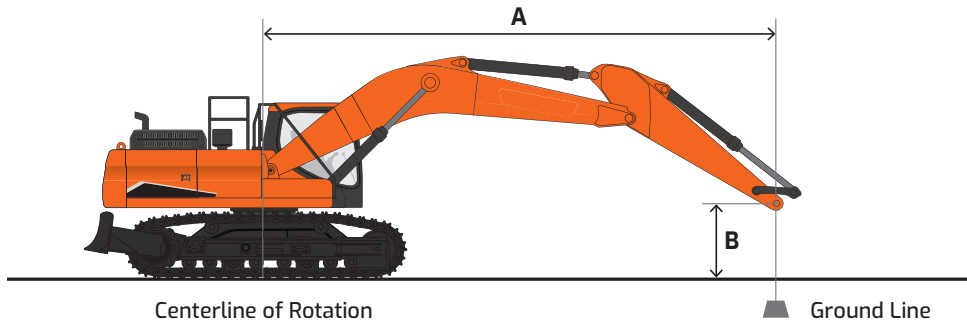
## DX200LC-7 US30

Boom: 18' 8.4" (5700 mm) | Arm: 9' 6.2" (2900 mm) | Counterweight: 9480 lb. (4300 kg) | 34.5" (900 mm) TG Shoes | Bucket: None | Unit: lb. (kg)

A (ft. or m) B (ft. or m)	5' (1.5 m)		10' (3.0 m)		15' (4.5 m)		20' (6.0 m)		25' (7.5 m)		Max. Reach		
													A
25' (7.5 m)							* 10330 (* 4690)	* 10330 (* 4690)			* 9000 (* 4080)	* 9000 (* 4080)	20.34' (6.20 m)
20' (6.0 m)							* 10760 (* 4880)	* 10760 (* 4880)			* 8380 (* 3800)	* 8380 (* 3800)	23.98' (7.31 m)
15' (4.5 m)							* 11790 (* 5350)	* 11790 (* 5350)	* 10880 (* 4930)	8710 (3950)	* 8250 (* 3740)	7830 (3550)	26.21' (7.99 m)
10' (3.0 m)					* 17270 (* 7830)	* 17270 (* 7830)	* 13410 (* 6080)	11800 (5350)	* 11540 (* 5230)	8470 (3840)	* 8470 (* 3840)	7170 (3250)	27.38' (8.35 m)
5' (1.5 m)					* 20470 (* 9290)	16830 (7630)	* 15030 (* 6820)	11240 (5100)	* 12300 (* 5580)	8200 (3720)	* 9030 (* 4100)	6930 (3140)	27.63' (8.42 m)
Ground Level			* 12530 (* 5680)	* 12530 (* 5680)	* 22000 (* 9980)	16200 (7350)	* 16060 (* 7290)	10860 (4920)	12520 (5680)	8000 (3630)	* 10060 (* 4570)	7060 (3200)	26.98' (8.22 m)
-5' (-1.5 m)	* 13670 (* 6200)	* 13670 (* 6200)	* 21630 (* 9810)	* 21630 (* 9810)	* 21790 (* 9880)	16040 (7270)	* 16130 (* 7320)	10700 (4850)	* 12420 (* 5640)	7950 (3610)	* 11870 (* 5380)	7650 (3470)	25.36' (7.73 m)
-10' (-3.0 m)	* 23310 (* 10570)	* 23310 (* 10570)	* 27690 (* 12560)	* 27690 (* 12560)	* 19880 (* 9020)	16190 (7340)	* 14750 (* 6690)	10790 (4890)			* 12080 (* 5480)	9050 (4110)	22.57' (6.88 m)
-15' (-4.5 m)			* 21020 (* 9540)	* 21020 (* 9540)	* 15350 (* 6960)	* 15350 (* 6960)					* 11710 (* 5310)	* 11710 (* 5310)	18.05' (5.50 m)

A Distance from center of rotation  
B Height

NOTE: Lifting capacities are in compliance with SAE 1097 and ISO 10567. Machine in lifting mode with power boost turned on. Load point is the end of the arm. Rated loads shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacities. Rated loads marked with an asterisk (\*) are limited by hydraulic capacities. The least stable position is over the side. The total mass of machine includes the mass of the boom, arm, counterweight, all operating fluids and 165 lb. (75 kg) operator.



# Standard & Optional Equipment

■ Standard ● Optional

## Engine

Emissions (EPA), T4f	■
High-pressure common-rail (HPCR)	■
Turbo, waste gate (WGT)	■
Cooled exhaust gas recirculation (CEGR)	■
Diesel oxidation catalyst (DOC)	■
Diesel particulate filter (DPF)	■
Selective catalytic reduction (SCR)	■
Diesel exhaust fluid (DEF)	■
Fuel filter with water separator	■
Coolant expansion tank	■
Dual element dry-type air filter with evacuator	■
Precleaner	■
Electronic engine control (ECU)	■
Auto idle	■
Auto shutdown (time-adjustable)	■
Overheat & low oil pressure engine protection	■
Water separator with heater	■
Fuel filler pump	●

## Hydraulic

Mechatronics Design	■
Variable axial piston main pump (tandem)	■
Cross-sensing pump control	■
Pilot-operated control valves	■
Gear pilot pump	■
Smart Power Control (SPC)	■
Variable-speed hydraulic cooling fan	■
Axial piston swing motor	■
Spring-applied hydraulic release brake	■
Axial piston travel motor (high/low, auto)	■
Auxiliary hydraulics, one- & two-way piping	■
Auxiliary hydraulics, tilt/rotate piping	●
Adjustable auxiliary flow & pressure, 10 presets	■
Intelligent floating boom	●
Breaker filter	●
Boom & arm lock valves	●
Clamshell piping	●
Straight travel	●

## Controls

Joystick controls	■
Pattern control change valve (SAE, ISO)	■
Joystick attachment control, switches/buttons	■
- Right (one-way, two-way, power boost)	■
- Left (tilt/rotate, horn, one-touch decel)	■
Foot pedal attachment control	■
Control stands	■
- Height adjustable	■
- Sliding (fore/aft)	■
- Tilting armrests	■
Engine speed control dial	■
Travel pedals with hand levers	■
Straight travel pedal	●
Switches, console-mounted	■
- Starter button switch	■
- Travel speed selector	■
- Work light	■
- Auxiliary mode switch	■
Emergency stop switch	■
Power modes (P+, P, S, E)	■
Work modes (digging, lifting, breaker, shear)	■
Smart Power Control (SPC)	■
Jog dial display control	■
Wiper control panel	■
Audio control panel	■

## Cabin

Steel, all-weather & sound-suppressed	■
ROPS (ISO 12117-2:2008)	■
Viscous mount with spring reinforcement	■
Front window with wiper/washer	■
Tinted safety glass	■
Skylight top hatch with sun screen	■
Front window with sun screen	■
Pull-up type top front window	■
Removable lower front window with storage behind seat	■
Wiper, lower window	■
Adjustable sliding side door window	■
Defrost, front window	■
Lockable doors	■
Seat	■
- Heated	■
- Air-suspension	■
- 2" (51 mm) seat belt	■
- Adjustable height & recline	■
- Adjustable fore/aft	■
- Adjustable armrests	■
Leatherette seat	■
- Heating & cooling	■
- Air-suspension	■
- 2" (51 mm) seat belt	●
- Adjustable height & recline	●
- Adjustable fore/aft	●
- Adjustable armrests	●
Control stands	■
- Height adjustable	■
- Mounted to seat base	■
Storage for operator's manuals	■
Mirrors	■
Fully automatic HVAC with radian energy photo sensor	■
8" multi-function LCD interactive display monitor	■
Cigarette lighter	■
Digital Bluetooth® & MP3 radio with cell phone integration	■
Speakers (2)	■
Antenna, roof-mounted	■
Emergency breakout tool	■
Hot/cold beverage compartment	■
Power socket, 12 V & 24 V	■
Cup holder	■
Interior light	■
Coat hanger	■
Rain shield	●
FOG guard	●
Front window guard	●

## Electrical

System voltage – 24 V	■
Alternator – 24 V, 85 A	■
2 x 12 V batteries, 100 AH reserve capacity, 900 CCA	■
Blade-type fuse panel	■
Main circuit breaker	■
Light, work (LED): machine (2), boom (2)	■
Light, work (LED): 6 cab top, front (4), rear (2)	●
Light, work (LED): 4 cab top, front (2), rear (2)	●
Rotating beacon	■
Overload warning alarm	●
Hour meter	■
Engine restart prevention system	■
Side view & rearview camera with LED lamps (3)	■
Around view camera	●
Microphone & speaker	●
Ultrasonic sensor	●
Laptop service port	■
Self-diagnostics system	■
Smart Key (remote ignition key)	■
MY DEVELON (telematics)	■

## Display Monitor & Warnings

Indicators	■
- Power modes	■
- Work modes	■
- User/Service menu	■
Gauges	■
- Fuel level	■
- DEF level	■
- Engine coolant temperature	■
- Hydraulic oil temperature	■
- Engine rpm	■
- Battery voltage	■
- Hydraulic pump pressure	■
- ECO	■
- Digital clock	■
- Trip meter	■
- Hour meter	■
- Fuel consumption	■
Warning & indicator lights	■
- Seat belt	■
- Error code	■
- SCR code	■
- DPF warning	■
- Check engine	■
- Engine oil pressure	■
- Engine pre-heat engaged	■
- Radiator coolant level & temperature	■
- Air filter	■
- Fuel level	■
- DEF level – low	■
- Water in fuel	■
- Battery charge	■
- Work lights on	■
- Hydraulic oil temperature	■
- Hydraulic charge pressure	■
- Hydraulic pilot filter	■
- Hydraulic return filter	■
Swing alarm	■
Travel alarm	■
Buzzer	■
- Engine oil pressure	■
- Coolant temperature	■

## Undercarriage

Track guards & chains with adjusters	■
Track rollers, upper	2
Track rollers, lower	8
In-shoe motor protection	■
Shoes, triple grouser – 600 mm	●
Shoes, triple grouser – 700 mm	●
Shoes, triple grouser – 800 mm	■
Shoes, triple grouser – 900 mm	●
Dozer blade, front	●

## Other

Centralized lubrication	■
- Boom	■
- Swing	■
Handrails & service platforms	■
Skid-resistant steps & service platforms	■
Manuals	■
- Operation & Maintenance	■
- AEM Safety Manual	■
MY DEVELON 3-year subscription (telematics)	■
Vandalism protection	■
- Lockable panels	■
- Lockable fluid fill points	■
- Anti-theft protection (password)	■
- Window cover mount	■
Air compressor	●

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.

# Powered by Innovation

# DEVELON

A brand of HD Hyundai Infracore.

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