

DEVELON

Crawler Excavator

DX225LC-7X



Engine

Make	DEVELON
Model	DL06P
Number of cylinders	6
Rated power, gross (hp per SAE J1995)	172.3 hp (129.0 kW) @ 1800 rpm
Rated power, net (hp per SAE J1349)	162.3 hp (121.0 kW) @ 1800 rpm
Max. torque, gross (SAE J1995)	593.0 ft.-lb. (804.0 Nm) @ 1400 rpm
Displacement	360.0 in. ³ (5.9 L)
Bore and stroke	3.9" x 4.9" (100 mm x 125 mm)
Starter	24 V, 8.6 hp (6.0 kW)
Battery	2 x 12 V, 150 AH
Alternator	24 V, 100 A
Air cleaner	Three-stage

Hydraulics

Main pumps	2 x 55.6 gpm (2 x 210.6 L/min.)
Pilot pump (gear design)	7.1 gpm (27.0 L/min.)

Working Pressure

Boom/arm/bucket (normal mode)	4978.2 psi (350.0 kg/cm ²)
Boom/arm/bucket (power boost)	5262.6 psi (370.0 kg/cm ²)
Travel	5262.6 psi (370.0 kg/cm ²)
Swing	3840.3 psi (270.0 kg/cm ²)
Pilot	568.9 psi (40.0 kg/cm ²)

Undercarriage

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

Swing Mechanism

Swing speed	0 – 10.9 rpm
Swing torque	60757.3 lb.f. ft. (8400.0 kgf·m)

Drive System

Travel speed (low – high)	1.8 – 3.4 mph (3.0 – 5.5 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	103.6 gal. (392.0 L)
DEF tank	8.3 gal. (31.5 L)
Cooling system (radiator capacity)	8.0 gal. (30.3 L)
Engine oil (with filter)	7.1 gal. (27.0 L)
Swing drive	1.3 gal. (5.0 L)
Final drive (each side)	1.1 gal. (4.0 L)
Hydraulic system	60.8 gal. (230.0 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 ¹ (2) bore x rod diameter x stroke	4.9" x 3.3" x 49.7" (125 mm x 85 mm x 1263 mm)
Arm ^{1,2} (1) bore x rod diameter x stroke	5.5" x 3.9" x 56.8" (140 mm x 100 mm x 1443 mm)
Bucket (STD) ¹ (1) bore x rod diameter x stroke	4.7" x 3.1" x 41.7" (120 mm x 80 mm x 1060 mm)

¹ Cushion on rod end

² Cushion on base end

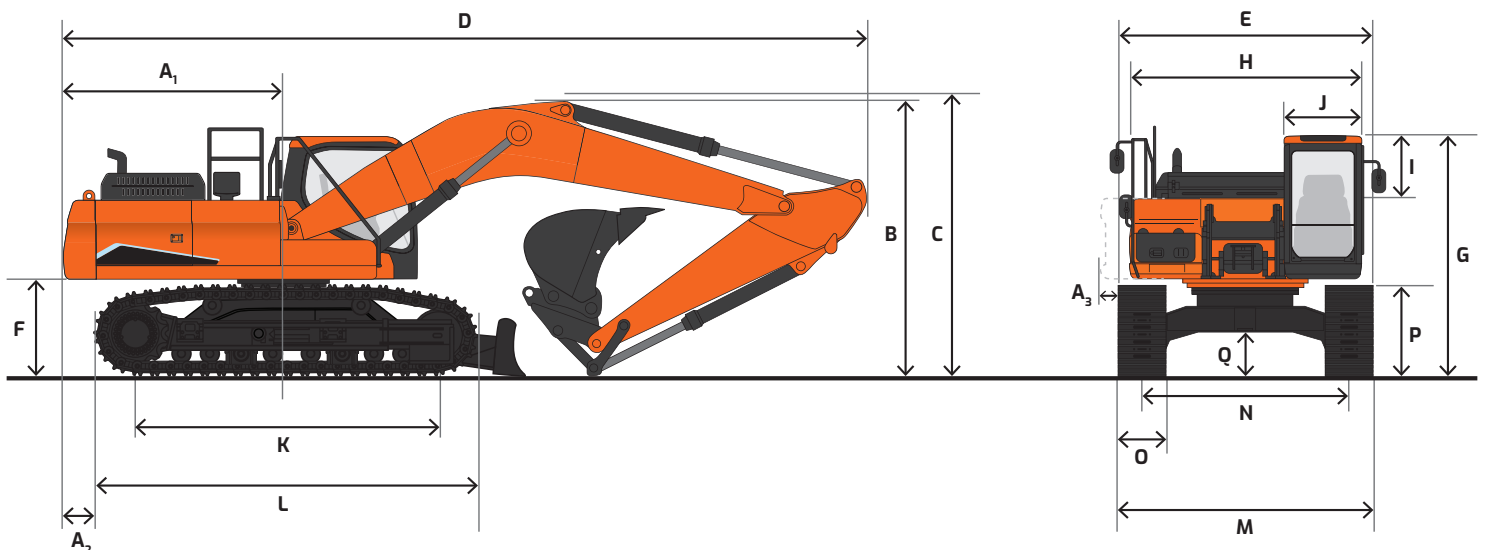
The piston rods and cylinder bodies are made of high-strength steel. A shock-absorbing mechanism is fitted in all cylinders to ensure shock-free operation and extended piston life.

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		9' 6.2" (2900 mm)	11' 5.8" (3500 mm)
Bucket size (SAE)		1.2 yd ³ (0.92 m ³)	1.06 yd ³ (0.81 m ³)
Tail swing radius	A ₁	9' 6.5" (2909 mm)	
Tail swing overhang (rear)	A ₂	2' 3.0" (686 mm)	
Tail swing overhang (side)	A ₃	4' 3.7" (1314 mm)	4' 1.8" (1264 mm)
Shipping height (boom)	B	9' 5.8" (2890 mm)	10' 2.4" (3110 mm)
Shipping height (hose)	C	9' 10.3" (3005 mm)	10' 10.1" (3305 mm)
Shipping length	D	31' 4.8" (9570 mm)	31' 6.3" (9610 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)	35.4" (900 mm)
Track height	P	3' 1.2" (945 mm)	
Car body clearance*	Q	1' 5.7" (450 mm)	

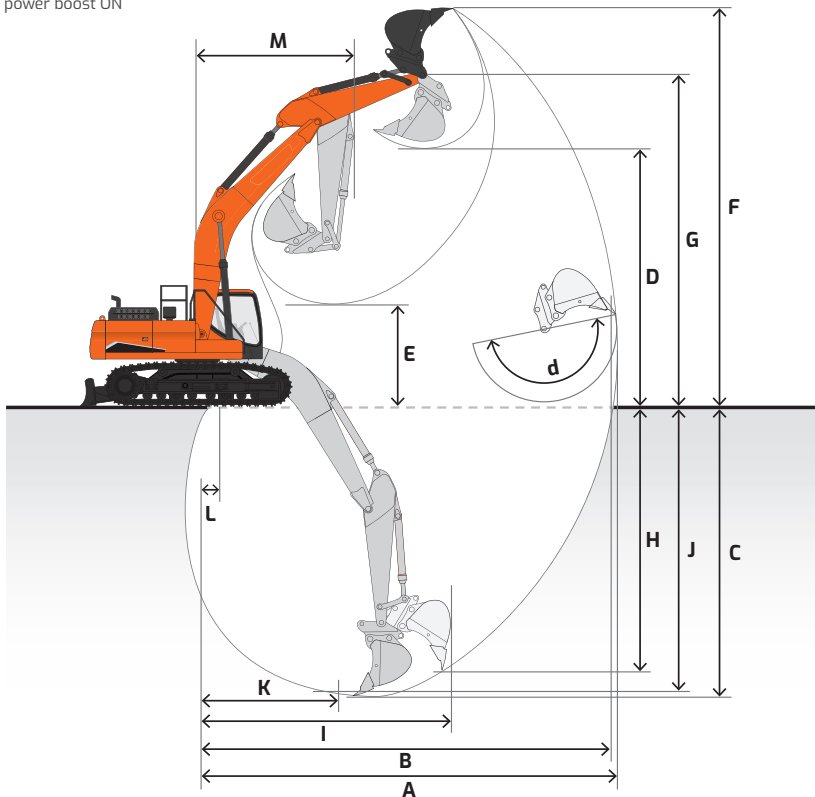
*Without shoe grouser



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		9' 6.2" (2900 mm)	11' 5.8" (3500 mm)
Bucket size (SAE)		1.2 yd ³ (0.92 m ³)	1.06 yd ³ (0.81 m ³)
Counterweight		10800 lb. (4900 kg)	11685 lb. (5300 kg)
Track type		Fixed	
Max. digging reach	A	32' 4.4" (9865 mm)	34' 0.9" (10385 mm)
Max. digging reach (ground)	B	31' 9.7" (9695 mm)	33' 6.4" (10220 mm)
Max. digging depth	C	21' 7.4" (6590 mm)	23' 7.9" (7210 mm)
Max. loading height	D	22' 4.9" (6830 mm)	22' 10.0" (6960 mm)
Min. loading height	E	8' 2.4" (2500 mm)	6' 1.6" (1870 mm)
Max. digging height	F	31' 6.7" (9620 mm)	31' 7.3" (9635 mm)
Max. bucket pin height	G	27' 1.6" (8270 mm)	27' 7.3" (8415 mm)
Max. vertical wall depth	H	18' 1.5" (5525 mm)	19' 8.0" (5995 mm)
Max. radius vertical	I	21' 0.6" (6415 mm)	22' 1.4" (6740 mm)
Max. depth to 8' line	J	20' 11.8" (6395 mm)	23' 0.8" (7030 mm)
Min. radius to 8' line	K	9' 3.0" (2820 mm)	9' 1.8" (2790 mm)
Min. digging reach	L	1' 10.6" (575 mm)	-8.9" (-225 mm)
Min. swing radius	M	11' 8.2" (3560 mm)	11' 10.3" (3615 mm)
Bucket angle (DEG)	d	177°	
Digging force, bucket*	ISO	36376.3 lbf. (16500 kgf)	
Digging force, arm*		25353.2 lbf. (11500 kgf)	22707.6 lbf. (10300 kgf)
Operating weight		52018 lb. (23595 kg)	53958 lb. (24475 kg)
Ground pressure		5.3 psi (0.37 kg/cm ²)	4.8 psi (0.34 kg/cm ²)

*With power boost ON















Lifting Capacity

 Rating over front  Rating over side or 360°

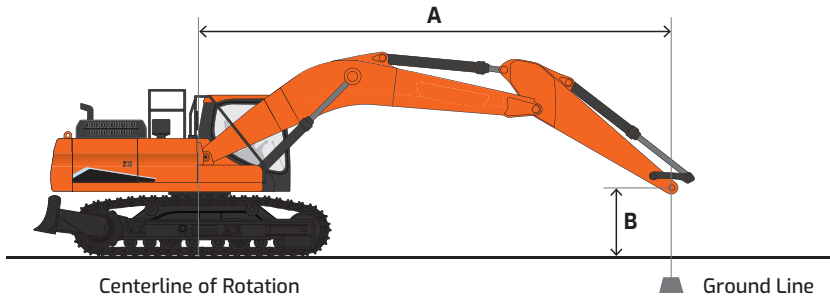
DX225LC-7X US20

Boom: 18' 8.4" (5700 mm) | Arm: 9' 6.2" (2900 mm) | Counterweight: 10800 lb. (4900 kg) | 31.5" (800 mm) TG Shoes | No Dozer | 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)							* 11530 (* 5230)	* 11530 (* 5230)			* 10050 (* 4560)	* 10050 (* 4560)	20.34' (6.20 m)
20' (6.0 m)							* 12750 (* 5780)	* 12750 (* 5780)			* 9370 (* 4250)	* 9370 (* 4250)	23.98' (7.31 m)
15' (4.5 m)							* 13980 (* 6340)	13130 (5960)	* 12940 (* 5870)	9300 (4220)	* 9240 (* 4190)	8390 (3800)	26.21' (7.99 m)
10' (3.0 m)				* 20420 (* 9260)	19100 (8670)	* 15910 (* 7220)	12570 (5700)	* 13730 (* 6230)	9060 (4110)	* 9480 (* 4300)	7690 (3490)	7450 (3380)	27.38' (8.35 m)
5' (1.5 m)				* 24230 (* 10990)	17940 (8140)	* 17840 (* 8090)	12010 (5450)	13440 (6100)	8800 (3990)	* 10110 (* 4580)	7450 (3380)	7450 (3380)	27.63' (8.42 m)
Ground Level			* 14080 (* 6390)	* 14080 (* 6390)	* 26060 (* 11820)	17310 (7850)	18300 (8300)	11620 (5270)	13220 (6000)	8590 (3900)	* 11250 (* 5110)	7600 (3450)	26.98' (8.22 m)
-5' (-1.5 m)	* 15370 (* 6970)	* 15370 (* 6970)	* 24440 (* 11080)	* 24440 (* 11080)	* 25830 (* 11720)	17140 (7770)	18120 (8220)	11460 (5200)	13160 (5970)	8540 (3870)	12640 (5730)	8220 (3730)	25.36' (7.73 m)
-10' (-3.0 m)	* 26340 (* 11950)	* 26340 (* 11950)	* 32850 (* 14900)	* 32850 (* 14900)	* 23620 (* 10710)	17280 (7840)	* 17570 (* 7970)	11550 (5240)			* 14430 (* 6550)	9700 (4400)	22.57' (6.88 m)
-15' (-4.5 m)			* 25100 (* 11390)	* 25100 (* 11390)	* 18340 (* 8320)	* 17790 (* 8070)					* 14050 (* 6370)	* 13480 (* 6110)	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.















Lifting Capacity

 Rating over front  Rating over side or 360°

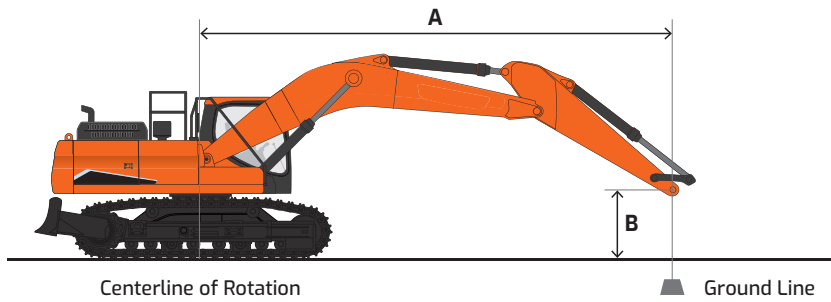
DX225LC-7X US30

Boom: 18' 8.4" (5700 mm) | Arm: 11' 5.8" (3500 mm) | Counterweight: 11685 lb. (5300 kg) | 35.4" (900 mm) TG Shoes | No Dozer | 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)											* 7820 (* 3550)	* 7820 (* 3550)	22.79' (6.95 m)
20' (6.0 m)									* 10110 (* 4590)	9980 (4530)	* 7960 (* 3610)	* 7960 (* 3610)	25.87' (7.89 m)
15' (4.5 m)							* 12500 (* 5670)	* 12500 (* 5670)	* 11730 (* 5320)	9810 (4450)	* 7890 (* 3580)	* 7890 (* 3580)	27.95' (8.52 m)
10' (3.0 m)			* 27420 (* 12440)	* 27420 (* 12440)	* 18170 (* 8240)	* 18170 (* 8240)	* 14540 (* 6600)	13260 (6010)	* 12700 (* 5760)	9510 (4310)	* 8120 (* 3680)	7340 (3330)	29.04' (8.85 m)
5' (1.5 m)					* 22430 (* 10170)	18960 (8600)	* 16690 (* 7570)	12600 (5720)	* 13800 (* 6260)	9170 (4160)	* 8650 (* 3920)	7100 (3220)	29.28' (8.92 m)
Ground Level			* 17130 (* 7770)	* 17130 (* 7770)	* 25060 (* 11370)	18070 (8200)	* 18290 (* 8300)	12090 (5490)	13690 (6210)	8900 (4030)	* 9580 (* 4350)	7200 (3260)	28.67' (8.74 m)
-5' (-1.5 m)	* 15100 (* 6850)	* 15100 (* 6850)	* 24070 (* 10920)	* 24070 (* 10920)	* 25670 (* 11640)	17710 (8030)	18710 (8490)	11830 (5360)	13530 (6140)	8750 (3970)	* 11200 (* 5080)	7700 (3490)	27.16' (8.28 m)
-10' (-3.0 m)	* 23480 (* 10650)	* 23480 (* 10650)	* 34720 (* 15750)	34300 (15560)	* 24350 (* 11040)	17740 (8050)	* 18080 (* 8200)	11810 (5360)			* 13530 (* 6140)	8850 (4010)	24.57' (7.49 m)
-15' (-4.5 m)	* 34430 (* 15620)	* 34430 (* 15620)	* 28830 (* 13080)	* 28830 (* 13080)	* 20580 (* 9340)	18120 (8220)	* 14750 (* 6690)	12130 (5500)			* 13750 (* 6240)	11520 (5220)	20.5' (6.25 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)	■
Selective catalytic reduction (SCR)	■
Diesel exhaust fluid (DEF)	■
Fuel filter with water separator	■
Coolant expansion tank	■
Dual element dry-type air filter with evacuator	■
Pre-cleaner	■
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	■
Full electric hydraulics	■
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, 100 A	■
2 x 12 V batteries, 150 AH reserve capacity, 950 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)	■
2D Smart Guidance System with laser receiver*	■

Display Monitor & Warnings

Indicators	■
- Power modes	■
- Work modes	■
- User/Service menu	■
Smart Guidance 2D screen*	■
- Set assist mode	■
- Set grade precision	■
- Set grade mode	■
- Virtual wall limits	■
- Laser indicator	■
- Vertical distance from target position	■
- Pitch & roll angle indicators	■
- Bucket angle indicator	■
- Bucket tooth depth indicator zones	■
- Slope indicator	■
- Name of active bucket	■
- Horizontal distance between bucket tooth & reference point	■
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 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 – 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	●

*DX225LC-7X-US20 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.

Powered by Innovation

DEVELON

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