

DEVELON

Crawler Excavator

DX300LC-7



Engine

Make	DEVELON
Model	DL08-LEE04
Number of cylinders	6
Rated power, gross (hp per SAE J1995)	271 hp (202 kW) @ 1800 rpm
Rated power, net (hp per SAE J1349)	267 hp (199 kW) @ 1800 rpm
Max. torque, gross (SAE J1995)	940 ft.-lb. (1275 Nm) @ 1300 rpm
Piston displacement	466 in. ³ (7.6 L)
Bore and stroke	4.3 in. x 5.5 in. (108 mm x 139 mm)
Starter	24 V, 8.0 hp (6.0 kW)
Battery	2 x 12 V, 150 AH, 1300 CCA
Alternator	24 V, 80 amp
Air cleaner	Three-stage

Hydraulics

Main pumps	2 x 66 gpm (2 x 248 L/min.)
Pilot pump (gear design)	7.1 gpm (27 L/min.)
Relief pressure (normal mode)	4980 psi (350 kg/cm ²)
Relief pressure (power boost)	5260 psi (370 kg/cm ²)

Working Pressure

Boom/arm/bucket (normal mode)	4980 psi (350 kg/cm ²)
Boom/arm/bucket (power boost)	5260 psi (370 kg/cm ²)
Travel	4980 psi (350 kg/cm ²)
Swing	4200 psi (295 kg/cm ²)

Undercarriage

Upper rollers (each track)	2
Lower rollers (each track)	9
Number of shoes (links per side)	48
Total length of track	16' 2" (4940 mm)

Swing Mechanism

Swing speed	0 – 9.9 rpm
Swing torque	87787 lbf.-ft. (12137 kgf-m)

Drive System

Travel speed [low – high]	1.9 – 3.4 mph (3.0 – 5.5 km/h)
Traction force, max. (drawbar pull)	77162 lbf.-ft. (35000 kgf-m)
Max. grade (limited by engine lub)	70% (35°)

Environment

Sound level (2000/14/EC)	103 dB(A)
Cabin sound level (ISO 6396)	72 dB(A)

Refill Capacities

Fuel tank	129.4 gal. (490 L)
DEF tank	16.4 gal. (62 L)
Cooling system (radiator capacity)	13.3 gal. (50.5 L)
Engine oil (with filler)	11.1 gal. (42 L)
Swing drive	1.8 gal. (7 L)
Final drive (each side)	1.8 gal. (7 L)
Hydraulic system	93.8 gal. (355 L)
Hydraulic tank	43.6 gal. (165 L)

Hydraulic Cylinders

Boom ¹ (2) bore x rod diameter x stroke	Mono boom	5.5 in. x 3.7 in. x 571 in. (140 mm x 95 mm x 1450 mm)
	2-PC boom (lower)	–
	2-PC boom (upper)	–
Arm ^{1,2} (1) bore x rod diameter x stroke		5.9 in. x 4.1 in. x 65.7 in. (150 mm x 105 mm x 1670 mm)
Bucket ¹ (1) bore x rod diameter x stroke	STD	5.3 in. x 3.5 in. x 45.3 in. (135 mm x 90 mm x 1150 mm)
	SLR*	3.7 in. x 2.6 in. x 35.4 in. (95 mm x 65 mm x 900 mm)

¹ Cushion on rod end

*Super-long reach

² Cushion on base end

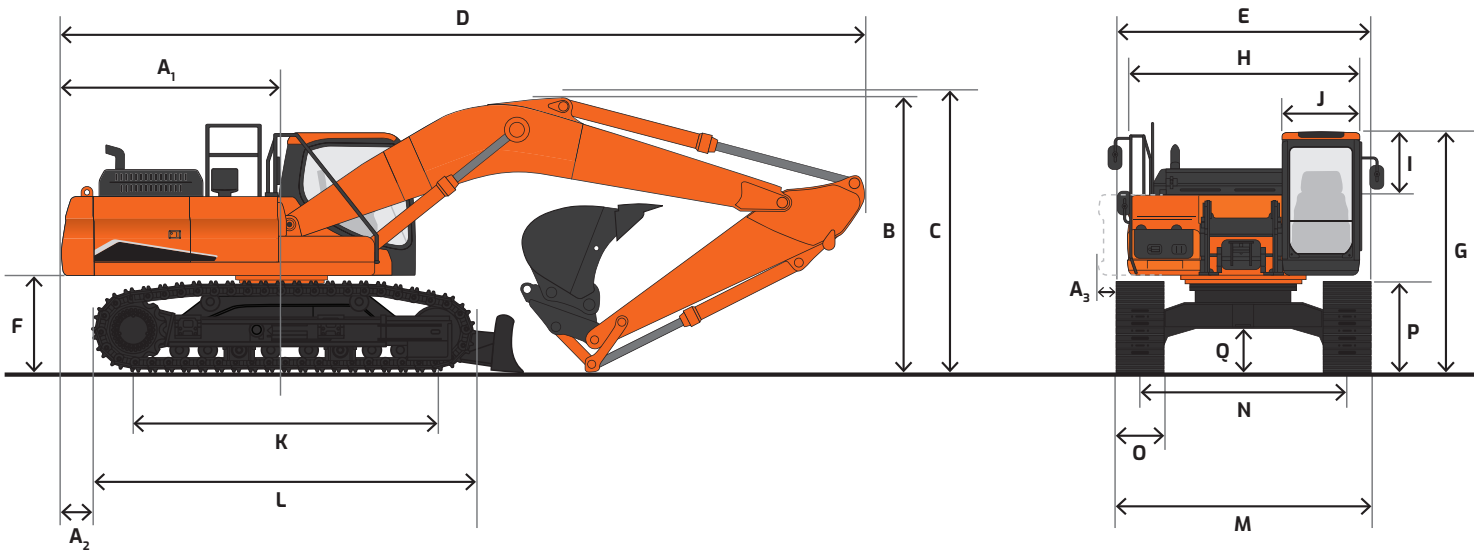
The piston rods and cylinder bodies are made of high-strength steel. A shock-absorbing mechanism is fitted in all cylinders to ensure shock-free operation and extended piston life.

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. 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)	Heavy-Duty Front 31.5" (800 mm) TG Shoe (US30)	Super-Long Reach 35.4" (900 mm) TG Shoe (US50)
Boom length		20' 6" (6245 mm)		32' 10" (10000 mm)
Arm length		10' 2" (3100 mm)		23' 0" (7000 mm)
Bucket type (SAE)		1.66 yd³ (1.27 m³)		.84 yd³ (.64 m³)
Track type		Fixed		
Tail swing radius	A ₁	10' 7" (3230 mm)		
Tail swing overhang (rear)	A ₂	2' 6" (760 mm)		
Tail swing overhang (side)	A ₃	5' 0" (1530 mm)		4' 10" (1530 mm)
Shipping height (boom)	B	10' 9" (3265 mm)		11' 0" (3365 mm)
Shipping height (hose)	C	11' 1" (3370 mm)		11' 5" (3475 mm)
Shipping length	D	34' 10" (10605 mm)		47' 3" (14400 mm)
Shipping width	E	11' 2" (3400 mm)		
Counterweight clearance*	F	3' 8" (1120 mm)		
Cabin height	G	10' 0" (3050 mm)		
Upper structure width	H	9' 9" (2960 mm)		
Cabin height above house	I	2' 9" (850 mm)		
Cabin width	J	3' 4" (1010 mm)		
Tumbler distance	K	13' 3" (4040 mm)		
Overall track length	L	16' 2" (4940 mm)		
Undercarriage width	M	11' 2" (3400 mm)		
Track gauge	N	8' 6" (2600 mm)		
Track shoe width	O	31.5" (800 mm)		35.4" (900 mm)
Track height*	P	3' 2" (970 mm)		
Car body clearance*	Q	1' 6" (471 mm)		

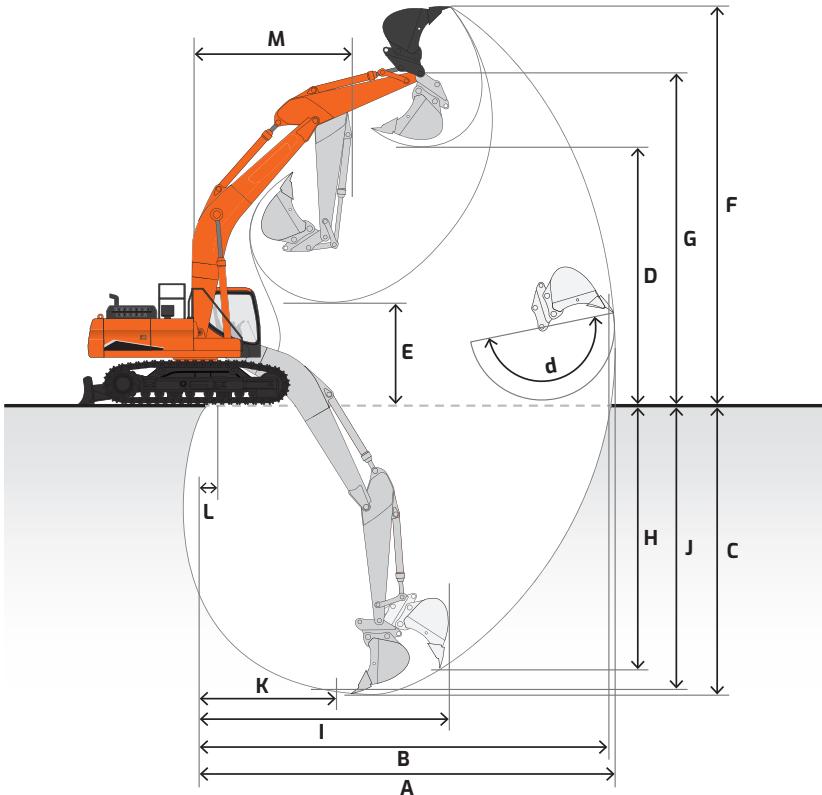
*Without shoe grouser height (30 mm)



Working Range

		Standard Arm 31.5" (800 mm) TG Shoe (US20)	Heavy-Duty Front 31.5" (800 mm) TG Shoe (US30)	Super-Long Reach 35.4" (900 mm) TG Shoe (US50)
Boom length		20' 6" (6245 mm)		32' 10" (10000 mm)
Arm length		10' 2" (3100 mm)		23' 0" (7000 mm)
Bucket type (SAE, PCSA)		1.66 yd³ (1.27 m³)		.84 yd³ (.64 m³)
Track type		Fixed		
Max. digging reach	A	35' 2" (10725 mm)		57' 5" (17510 mm)
Max. digging reach (ground)	B	34' 7" (10530 mm)		57' 1" (17390 mm)
Max. digging depth	C	24' 0" (7305 mm)		45' 3" (13780 mm)
Max. loading height	D	23' 11" (7280 mm)		39' 4" (11990 mm)
Min. loading height	E	9' 0" (2750 mm)		7' 8" (2345 mm)
Max. digging height	F	33' 10" (10325 mm)		46' 7" (14195 mm)
Max. bucket pin height	G	29' 2" (8880 mm)		43' 4" (13205 mm)
Max. vertical wall depth	H	20' 1" (6125 mm)		38' 0" (11590 mm)
Max. radius vertical	I	22' 5" (6840 mm)		35' 9" (10900 mm)
Max. depth to 8' line	J	23' 4" (7110 mm)		44' 9" (13645 mm)
Min. radius to 8' line	K	9' 10" (3000 mm)		16' 11" (5150 mm)
Min. digging reach	L	2' 1" (620 mm)		3' 10" (1160 mm)
Min. swing radius	M	13' 3" (4040 mm)		20' 1" (6120 mm)
Bucket angle (DEG)	d	175°		169°
Digging force, bucket (PCSA)*	ISO	44090 lbf. (20000 kgf)		23150 lbf. (10500 kgf)
Digging force, arm*		30645 lbf. (13900 kgf)		16535 lbf. (7500 kgf)
Operating weight		69446 lb. (31500 kg)	69666 lb. (31600 kg)	73193 lb. (33200 kg)
Ground pressure		9.25 psi (0.65 kg/cm²)		6.68 psi (0.47 kg/cm²)

*With power boost ON



Lifting Capacity

 Rating over front  Rating over side or 360°

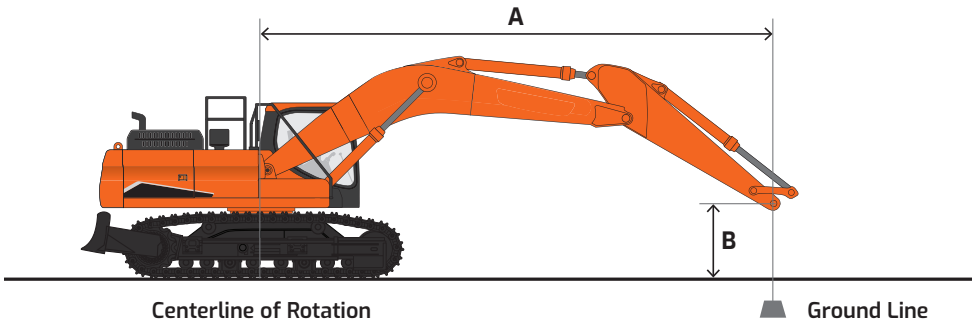
DX300LC-7 US20

Boom: 20' 6" (6245 mm) | Arm: 10' 2" (3100 mm) | Counterweight: 13890 lb. (6300 kg) | 31.5" (800 mm) 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)		30' (9.0 m)		Max. Reach		A
															
25' (7.5 m)													* 11810 (* 5360)	* 11810 (* 5360)	23.84' (7.27 m)
20' (6.0 m)							* 14970 (* 6790)	* 14970 (* 6790)	* 14760 (* 6700)	* 14760 (* 6700)			* 11350 (* 5150)	* 11350 (* 5150)	26.89' (8.19 m)
15' (4.5 m)					* 20850 (* 9460)	* 20850 (* 9460)	* 17430 (* 7900)	* 17430 (* 7900)	* 15810 (* 7170)	14700 (6670)			* 11370 (* 5160)	* 11370 (* 5160)	28.78' (8.77 m)
10' (3.0 m)					* 27600 (* 12520)	* 27600 (* 12520)	* 20650 (* 9370)	19660 (8920)	* 17460 (* 7920)	14180 (6430)	* 13000 (* 5900)	10720 (4860)	* 11790 (* 5350)	9570 (4800)	29.75' (9.07 m)
5' (1.5 m)					* 33190 (* 15060)	28110 (12750)	* 23730 (* 10760)	18710 (8490)	* 19180 (* 8700)	13670 (6200)	* 14820 (* 6720)	10490 (4760)	* 12650 (* 5740)	9290 (4680)	29.87' (9.10 m)
Ground Level					* 35910 (* 16290)	27940 (12360)	* 25870 (* 11730)	18080 (8200)	* 20500 (* 9300)	13290 (6030)			* 14110 (* 6400)	9460 (4770)	29.17' (8.89 m)
-5' (-1.5 m)	* 19060 (* 8650)	* 19060 (* 8650)	* 27140 (* 12310)	* 27140 (* 12310)	* 36240 (* 16440)	27030 (12260)	26690 (12110)	17800 (8080)	20880 (9470)	13120 (5950)			* 16620 (* 7540)	10200 (5130)	27.57' (8.4 m)
-10' (-3.0 m)	* 30940 (* 14030)	* 30940 (* 14030)	* 41880 (* 19000)	* 41880 (* 19000)	* 34570 (* 15680)	27230 (12350)	* 25880 (* 11740)	17870 (8100)	* 19830 (* 8990)	13260 (6010)			* 19470 (8830)	11850 (5930)	24.89' (7.59 m)
-15' (-4.5 m)			* 41950 (* 19030)	* 41950 (* 19030)	* 30200 (* 13700)	27870 (12640)	* 22220 (* 10080)	18370 (8330)					* 20530 (* 9310)	15790 (7780)	20.75' (6.32 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	T4f
High-pressure common-rail (HPCR)	■
Variable geometry (VGT)	■
Cooled exhaust gas recirculation (CEGR)	■
Selective catalyst 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	■
Block heater (110 V)	●
Fuel filler pump	●

Hydraulic

Electronic Power Optimizing System (EPOS)	■
Variable axial piston main pump (tandem)	■
Cross-sensing pump control	■
Pilot-operated control valves	■
Gear pilot pump	■
D-ECOPOWER	■
Smart Power Control (SPC)	■
Axial piston swing motor	■
Spring-applied hydraulic release brake, swing motor	■
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	●
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	■
Bluetooth® control panel	■
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	■
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	
3" (76 mm) seat belt	●
Control stands	■
- Height adjustable	
- Mounted to seat base	
Storage for operator's manuals	■
Mirrors	■
Fully automatic HVAC with ambient temperature sensor	■
8" multi-function LCD interactive display monitor	■
Cigarette lighter	■
Digital Bluetooth audio broadcasting 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	●
Panto wiper, front windshield & lower window	■
Front window guard	●
Vandalism window cover mount	■

Electrical

System voltage – 24 V	■
Alternator – 24 V, 80 amp	■
2 x 12 V batteries, 150 AH reserve capacity	■
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	●
Hour meter	■
Engine restart prevention system	■
Side view & rearview camera with LED lamps (6)	■
360° all-around view camera	●
Ultrasonic sensor	●
Laptop service port	■
Self-diagnostics system	■
Smart key (remote ignition key)	■
DEVELON Fleet Management	■

Display Monitor & Warnings

Indicators	■
- Work modes (P+, P, S, E)	
- 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 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

Fixed track width	■
Track guards & chains with adjusters	■
Track rollers, upper	2
Track rollers, lower	9
In-shoe motor protection	■
Shoes, triple grouser – 700 mm	●
Shoes, triple grouser – 800 mm	■
Shoes, triple grouser – 900 mm	●

Frame

Counterweight, fixed	■
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Other

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

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DX300LC-7 Crawler Excavator Spec Sheet

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