

# DEVELON

## Crawler Excavator

# DX170LC-7



### Engine

Make	DEVELON
Model	D34
Number of cylinders	4
Rated power, gross (hp per SAE J1995)	135.0 hp (100.7 kW) @ 2000 rpm
Rated power, net (hp per SAE J1349)	115.0 hp (87.1 kW) @ 2000 rpm
Max. torque, gross (SAE J1995)	391.0 ft.-lb. (530.0 Nm) @ 1400 rpm
Displacement	208.0 in. <sup>3</sup> (3.4 L)
Bore and stroke	3.9" x 4.4" (98 mm x 113 mm)
Starter	24 V, 6.7 hp (5.0 kW)
Battery	2 x 12 V, 100 AH
Alternator	24 V, 100 A
Air cleaner	Two-stage

### Hydraulics

Main pumps	2 x 40.2 gpm (2 x 152.0 L/min.)
Pilot pump (gear design)	7.9 gpm (30.0 L/min.)

### Working Pressure

Boom/arm/bucket (normal mode)	4694.0 psi (330.0 kg/cm <sup>2</sup> )
Boom/arm/bucket (power boost)	4978.0 psi (350.0 kg/cm <sup>2</sup> )
Travel	4978.0 psi (350.0 kg/cm <sup>2</sup> )
Swing	3911.0 psi (275.0 kg/cm <sup>2</sup> )
Pilot	555.0 psi (39.0 kg/cm <sup>2</sup> )

### Undercarriage

Upper rollers (each track)	2
Lower rollers (each track)	7
Number of shoes (links per side)	45

### Swing Mechanism

Swing speed	0 – 10.3 rpm
Swing torque	46614.0 lbf.ft. (6445.0 kgf.m)

### Drive System

Travel speed (low – high)	1.9 – 3.1 mph (3.1 – 5.0 km/h)
Traction force, max. (drawbar pull)	45195.0 lbf. (20500.0 kgf)
Max. grade (limited by engine lub)	70% (35°)

### Environment

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

### Refill Capacities

Fuel tank	76.0 gal. (286.0 L)
DEF tank	7.9 gal. (30.0 L)
Cooling system (radiator capacity)	7.2 gal. (27.2 L)
Engine oil (with filter)	3.3 gal. (12.6 L)
Swing drive	0.8 gal. (3.0 L)
Final drive (each side)	0.8 gal. (3.0 L)
Hydraulic system	55.5 gal. (210.0 L)
Hydraulic tank	32.0 gal. (121.0 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	4.5" x 3.1" x 41.9" (115 mm x 80 mm x 1064 mm)
Arm <sup>1,2</sup> (1) bore x rod diameter x stroke	4.9" x 3.5" x 48.7" (125 mm x 90 mm x 1238 mm)
Bucket (STD) <sup>1</sup> (1) bore x rod diameter x stroke	4.1" x 2.8" x 39.2" (105 mm x 70 mm x 995 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.

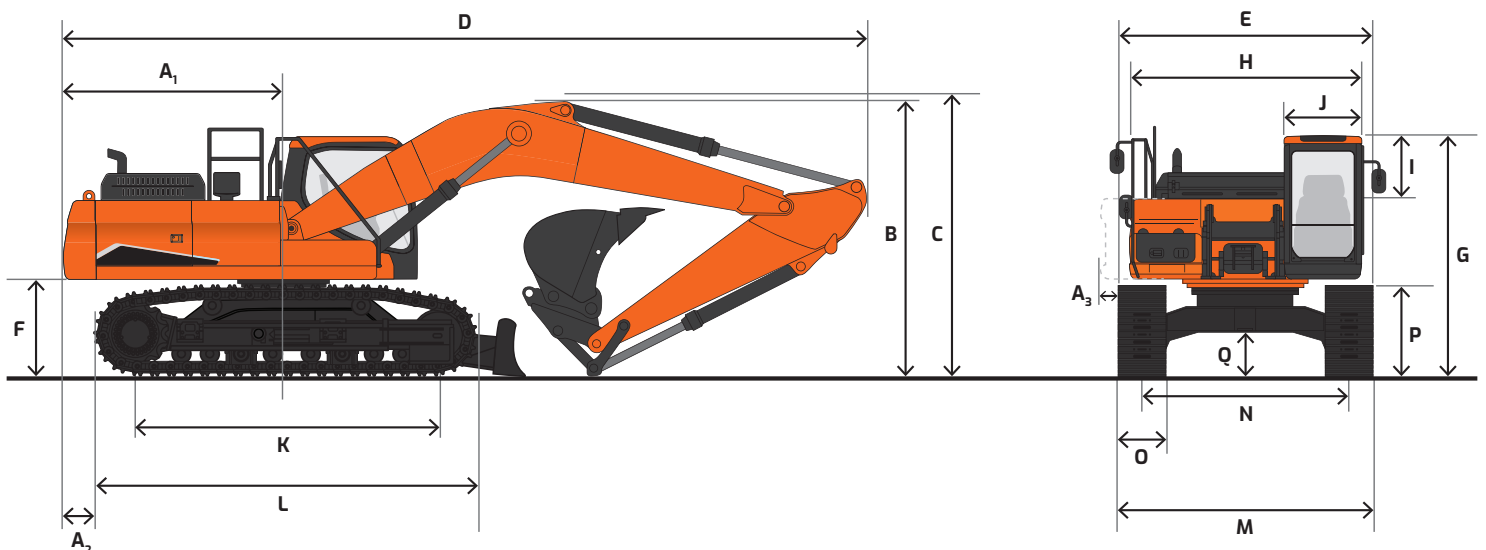
NOTE: Where applicable, dimensions are in accordance with Society of Automotive Engineers (SAE) and ISO standards. Specifications and design are subject to change without notice. All dimensions are given for DEVELON excavators equipped with standard tracks and the standard front as listed. Pictures of 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 23.6" (600 mm) Shoe (US20)

Boom length		16' 8.8" (5100 mm)
Arm length		8' 2.4" (2500 mm)
Bucket size (SAE)		0.99 yd <sup>3</sup> (0.76 m <sup>3</sup> )
Tail swing radius	A <sub>1</sub>	8' 3.6" (2530 mm)
Tail swing overhang (rear)	A <sub>2</sub>	1' 7.5" (496.5 mm)
Tail swing overhang (side)	A <sub>3</sub>	4' 0.6" (1235 mm)
Shipping height (boom)	B	9' 2.0" (2795 mm)
Shipping height (hose)	C	9' 9.5" (2985 mm)
Shipping length	D	28' 1.4" (8570 mm)
Shipping width	E	8' 6.0" (2590 mm)
Counterweight clearance*	F	3' 4.9" (1039 mm)
Cabin height	G	9' 8.5" (2960 mm)
Upper structure width	H	8' 4.0" (2540 mm)
Cabin height above house	I	2' 8.0" (814 mm)
Cabin width	J	3' 3.8" (1010 mm)
Tumbler distance	K	10' 8.9" (3275 mm)
Overall track length	L	13' 4.1" (4067 mm)
Undercarriage width	M	8' 6.0" (2590 mm)
Track gauge width	N	6' 6.3" (1990 mm)
Track shoe width	O	23.6" (600 mm)
Track height*	P	2' 10.0" (863.5 mm)
Car body clearance*	Q	1' 5.1" (434 mm)

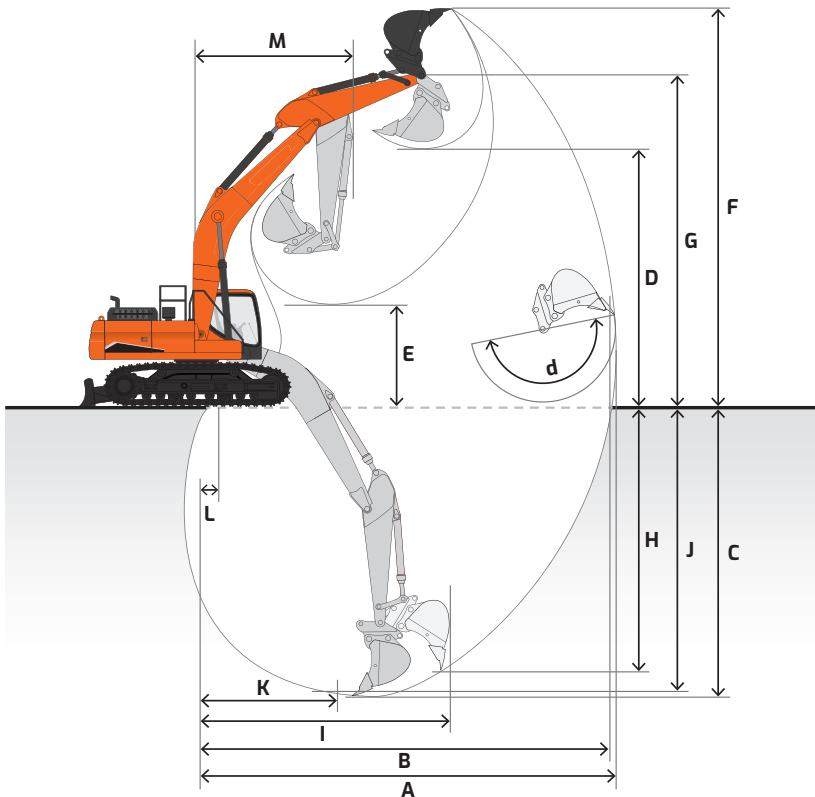
\*Without shoe grouser



# Working Range

## Standard Arm 23.6" (600 mm) Shoe (US20)

Boom length	16' 8.8" (5100 mm)	
Arm length	8' 2.4" (2500 mm)	
Bucket size (SAE)	0.99 yd <sup>3</sup> (0.76 m <sup>3</sup> )	
Counterweight	5732 lb. (2600 kg)	
Track type	Fixed	
Max. digging reach	A	29' 8.3" (9049 mm)
Max. digging reach (ground)	B	29' 1.5" (8877 mm)
Max. digging depth	C	20' 2.9" (6169 mm)
Max. loading height	D	21' 0.8" (6422 mm)
Min. loading height	E	7' 9.0" (2363 mm)
Max. digging height	F	29' 10.1" (9097 mm)
Max. bucket pin height	G	25' 9.1" (7850 mm)
Max. vertical wall depth	H	13' 10.0" (4216 mm)
Max. radius vertical	I	22' 2.0" (6757 mm)
Max. depth to 8' line	J	19' 6.3" (5952 mm)
Min. radius to 8' line	K	6' 10.2" (2088 mm)
Min. digging reach	L	1' 2.9" (379 mm)
Min. swing radius	M	10' 4.6" (3165 mm)
Bucket angle (DEG)	d	178°
Digging force, bucket	ISO	27778.2 lbf. (12600 kgf)
Digging force, arm		18518.8 lbf. (8400 kgf)
Operating weight	38360 lb. (17400 kg)	
Ground pressure	5.8 psi (0.41 kg/cm <sup>2</sup> )	















# Lifting Capacity

 Rating over front     Rating over side or 360°

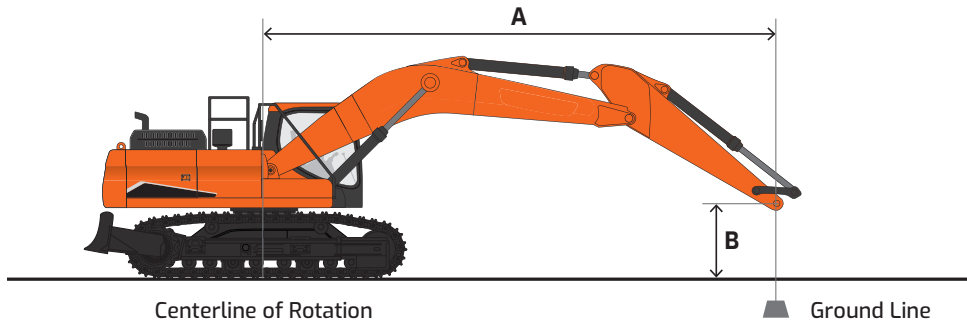
## DX170LC-7 US20

Boom: 16' 8.8" (5100 mm) | Arm: 8' 2.4" (2500 mm) | Counterweight: 5732 lb. (2600 kg) | 23.6" (600 mm) Shoes | No Dozer | Bucket: None | Unit: lb. (kg)

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)											* 5680 (* 2570)	* 5680 (* 2570)	16.06' (4.90 m)
20' (6.0 m)							* 7620 (* 3460)	7090 (3220)			* 4850 (* 2200)	* 4850 (* 2200)	20.61' (6.28 m)
15' (4.5 m)					* 10440 (* 4740)	* 10440 (* 4740)	* 9700 (* 4400)	7000 (3180)			* 4570 (* 2070)	* 4570 (* 2070)	23.27' (7.09 m)
10' (3.0 m)					* 13410 (* 6080)	10240 (4640)	* 10910 (* 4950)	6720 (3050)	* 4820 (* 2190)	4750 (2160)	* 4570 (* 2070)	* 4570 (* 2070)	24.66' (7.52 m)
5' (1.5 m)					* 16410 (* 7440)	9560 (4340)	10900 (4940)	6420 (2910)	* 6950 (* 3150)	4650 (2110)	* 4800 (* 2180)	4540 (2060)	24.99' (7.62 m)
Ground Level			* 14460 (* 6560)	* 14460 (* 6560)	16540 (7500)	9170 (4160)	10650 (4830)	6200 (2810)			* 5320 (* 2410)	4660 (2110)	24.33' (7.42 m)
-5' (-1.5 m)	* 14410 (* 6530)	* 14410 (* 6530)	* 24050 (* 10910)	16780 (7610)	16430 (7450)	9080 (4120)	10580 (4800)	6140 (2780)			* 6340 (* 2880)	5160 (2340)	22.58' (6.88 m)
-10' (-3.0 m)	* 24450 (* 11090)	* 24450 (* 11090)	* 23500 (* 10660)	17120 (7760)	* 16320 (* 7400)	9230 (4190)					* 8650 (* 3920)	6440 (2920)	19.4' (5.91 m)
-15' (-4.5 m)			* 16400 (* 7440)	* 16400 (* 7440)							* 10970 (* 4980)	10690 (4850)	13.88' (4.23 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	■
Electronic engine control (ECU)	■
Auto idle	■
Auto shutdown (time-adjustable)	■
Overheat & low oil pressure engine protection	■
Water separator with heater	■

## 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	■
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 ambient temperature sensor	■
8" multi-function LCD interactive display monitor	■
Speakers (2)	■
Antenna, roof-mounted	■
Emergency breakout tool	■
Hot/cold beverage compartment	■
Power socket, 12 V & 24 V	■
Cup holder	■
Interior light	■
Coat hanger	■
FOG guard	●
Front window guard	●

## Electrical

System voltage – 24 V	■
Alternator – 24 V, 100 A	■
2 x 12 V batteries, 100 AH reserve capacity, 900 CCA	■
Blade-type fuse panel	■
Main circuit breaker	■
Lights, work (LED): machine (2), boom (2)	■
Lights, work (LED): 6 cab top, front (4), rear (2)	●
Rotating beacon	■
Overload warning alarm	●
Hour meter	■
Engine restart prevention system	■
Side view & rearview camera with LED lamps (3)	■
Around view camera	●
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 warning - 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	7
In-shoe motor protection	■
Shoes, triple grouser – 600 mm	■
Shoes, triple grouser – 700 mm	●

## 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	■

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 Construction Equipment.

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DX170LC-7 Crawler Excavator Spec Sheet  
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