

# DEVELON

## Crawler Excavator

# DX530LC-7



### Engine

Make	Scania
Model	DC13
Number of cylinders	6
Rated power, gross (hp per SAE J1995)	379.5 hp (283.0 kW) @ 1800 rpm
Rated power, net (hp per SAE J1349)	379.5 hp (283.0 kW) @ 1800 rpm
Max. torque, gross (SAE J1995)	1374.0 ft.-lb. (1863.0 Nm) @ 900-1500 rpm
Displacement	775.0 in. <sup>3</sup> (12.7 L)
Bore and stroke	5.1" x 6.3" (130 mm x 160 mm)
Starter	24 V, 8.0 hp (6.0 kW)
Battery	2 x 12 V, 200 AH
Alternator	28 V, 100 A
Air cleaner	Three-stage

### Hydraulics

Main pumps	2 x 103.0 gpm (2 x 390.0 L/min.)
Pilot pump (gear design)	6.3 gpm (24.0 L/min.)

### Working Pressure

Boom/arm/bucket (normal mode)	4980.0 psi (330.0 kg/cm <sup>2</sup> )
Boom/arm/bucket (power boost)	5262.0 psi (370.0 kg/cm <sup>2</sup> )
Travel	4694.0 psi (330.0 kg/cm <sup>2</sup> )
Swing	4267.0 psi (300.0 kg/cm <sup>2</sup> )
Pilot	586.0 psi (40.8 kg/cm <sup>2</sup> )

### Undercarriage

Upper rollers (each track)	3
Lower rollers (each track)	9
Number of shoes (links per side)	53

### Swing Mechanism

Swing speed	0 - 9.2 rpm
Swing torque	145600.4 lbf.-ft. (20130.0 kgf-m)

### Drive System

Travel speed [low - high]	1.9 - 3.4 mph (3.1 - 5.5 km/h)
Traction force, max. (drawbar pull)	100750.2 lbf. (45700.0 kgf)
Max. grade (limited by engine lub)	70% (35°)

### Environment

Sound level (2000/14/EC)	106 dB(A)
Cabin sound level (ISO 6396)	72 dB(A)

### Refill Capacities

Fuel tank	162.7 gal. (616.0 L)
DEF tank	16.6 gal. (63.0 L)
Cooling system (radiator capacity)	13.9 gal. (52.8 L)
Engine oil (with filter)	11.9 gal. (45.0 L)
Swing drive	2 x 1.3 gal. (2 x 5.0 L)
Final drive (each side)	2.4 gal. (9.0 L)
Hydraulic system	145.3 gal. (550.0 L)
Hydraulic tank	70.0 gal. (265.0 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	6.7" x 4.5" x 65.0" (170 mm x 115 mm x 1650 mm)
Arm <sup>1,2</sup> (1) bore x rod diameter x stroke	7.5" x 5.1" x 78.0" (190 mm x 130 mm x 1980 mm)
Bucket (STD) <sup>1</sup> (1) bore x rod diameter x stroke	6.7" x 4.5" x 52.8" (170 mm x 115 mm x 1341 mm)
Bucket (SLR <sup>3</sup> ) <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

<sup>3</sup> Applicable to SLR (Super-Long-Reach) machines only

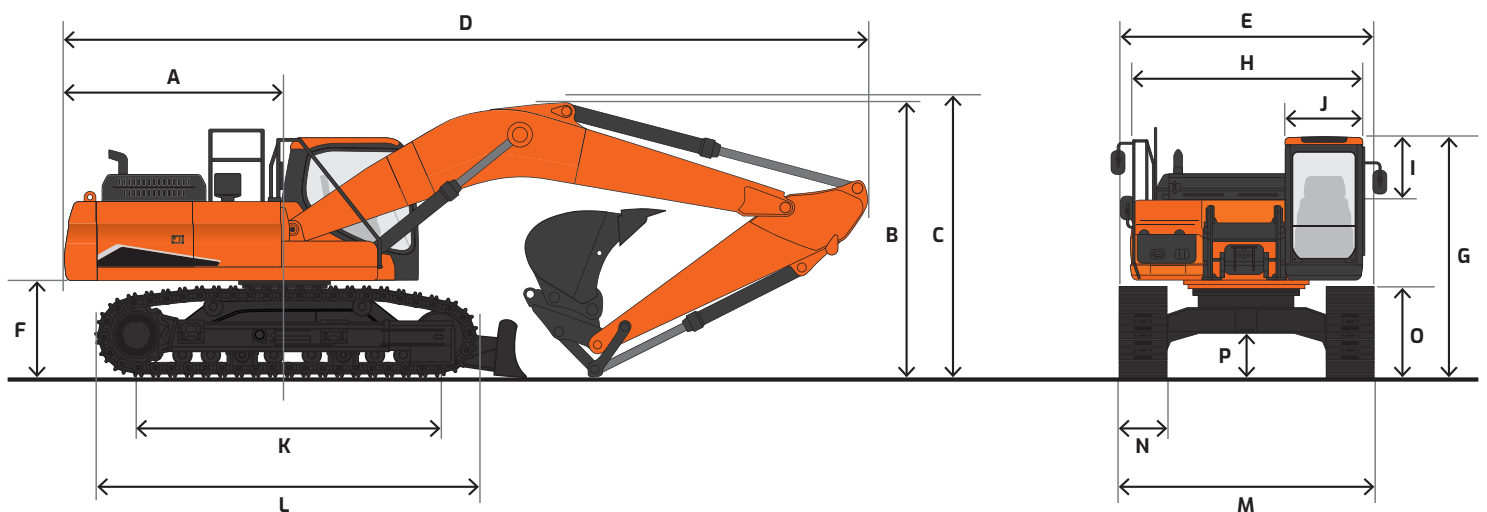
The piston rods and cylinder bodies are made of high-strength steel. A shock-absorbing mechanism is fitted in all cylinders to ensure shock-free operation and extended piston life.

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

		Short Arm 35.4" (900 mm) TG Shoe (US20)	Standard Arm 35.4" (900 mm) TG Shoe (US30)	Super-Long-Reach Arm 35.4" (900 mm) TG Shoe (US50)
Boom length		23' 3.5" (7100 mm)		36' 1" (11000 mm)
Arm length		9' 6.2" (2900 mm)	10' 11.9" (3350 mm)	26' 3.0" (8000 mm)
Bucket size (SAE)		3.13 yd <sup>3</sup> (2.39 m <sup>3</sup> )	2.80 yd <sup>3</sup> (2.14 m <sup>3</sup> )	1.20 yd <sup>3</sup> (0.92 m <sup>3</sup> )
Tail swing radius	A	12' 5.6" (3800 mm)		
Shipping height (boom)	B	12' 5.6" (3800 mm)	11' 8.9" (3580 mm)	12' 10.9" (3935 mm)
Shipping height (hose)	C	12' 9.3" (3895 mm)	12' 1.9" (3705 mm)	13' 4.2" (4070 mm)
Shipping length	D	40' 5.4" (12330 mm)		53' 1.6" (16195 mm)
Shipping width	retracted	12' 5.2" (3790 mm)		
	extended	13' 9.4" (4200 mm)		
Counterweight clearance*	F	4' 7.9" (1420 mm)		
Cabin height	G	10' 11.9" (3350 mm)		
Upper structure width	without catwalks	9' 9.7" (2990 mm)		
	with catwalks	10' 9.8" (3296 mm)		
Cabin height above house	I	2' 9.6" (853 mm)		
Cabin width	J	3' 3.8" (1010 mm)		
Tumbler distance	K	14' 8.2" (4475 mm)		
Overall track length	L	17' 11.7" (5480 mm)		
Undercarriage width	retracted	11' 11.0" (3640 mm)		
	extended	13' 9.0" (4200 mm)		
Track shoe width	N	35.4" (900 mm)		
Track height*	O	3' 10.5" (1180 mm)		
Car body clearance*	P	2' 4.5" (725 mm)		

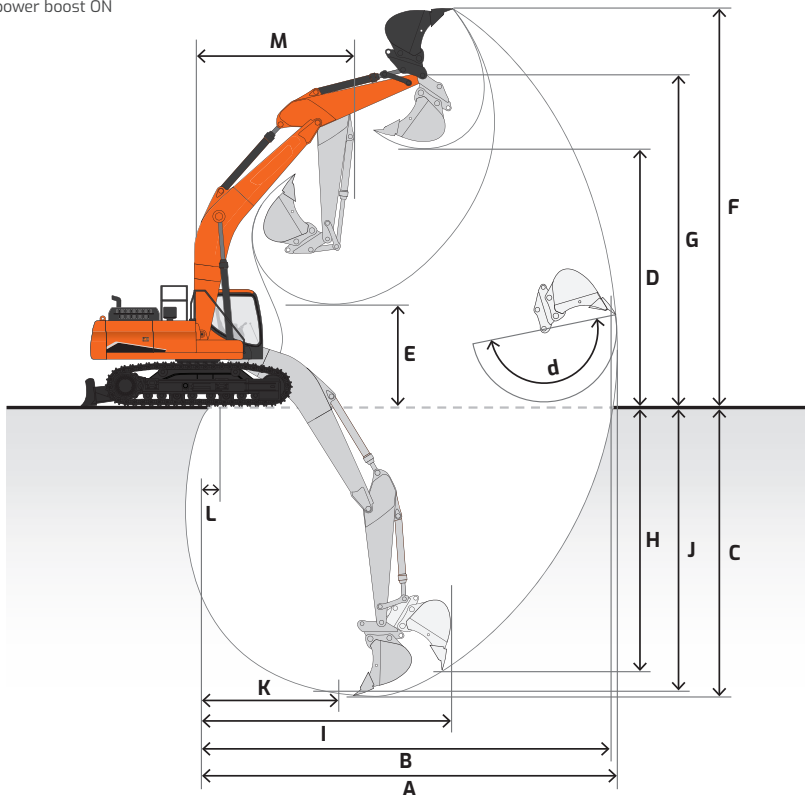
\*Without shoe grouser



# Working Range

		Short Arm 35.4" (900 mm) TG Shoe (US20)	Standard Arm 35.4" (900 mm) TG Shoe (US30)	Super-Long-Reach Arm 35.4" (900 mm) TG Shoe (US50)
Boom length		23' 3.5" (7100 mm)		36' 1.1" (11000 mm)
Arm length		9' 6.1" (2900 mm)	10' 11.9" (3350 mm)	26' 3.0" (8000 mm)
Bucket size (SAE)		3.13 yd <sup>3</sup> (2.39 m <sup>3</sup> )	2.80 yd <sup>3</sup> (2.14 m <sup>3</sup> )	1.20 yd <sup>3</sup> (0.92 m <sup>3</sup> )
Counterweight		24471 lb. (11100 kg)		
Track type		Wide – Retractable		
Max. digging reach	A	38' 5.4" (11720 mm)	39' 9.4" (12125 mm)	64' 4.2" (19615 mm)
Max. digging reach (ground)	B	37' 6.9" (11455 mm)	38' 11.1" (11865 mm)	63' 9.9" (19455 mm)
Max. digging depth	C	24' 1.0" (7340 mm)	25' 6.7" (7790 mm)	49' 7.5" (15125 mm)
Max. loading height	D	25' 4.1" (7725 mm)	25' 9.6" (7865 mm)	39' 0.1" (11890 mm)
Min. loading height	E	11' 8.9" (3580 mm)	10' 3.2" (3130 mm)	4' 9.7" (1465 mm)
Max. digging height	F	35' 9.9" (10920 mm)	36' 3.0" (11050 mm)	47' 4.3" (14435 mm)
Max. bucket pin height	G	31' 4.0" (9550 mm)	31' 9.4" (9690 mm)	43' 9.8" (13355 mm)
Max. vertical wall depth	H	13' 3.25" (4045 mm)	14' 4.0" (4370 mm)	42' 0.1" (12805 mm)
Max. radius vertical	I	31' 10.3" (9710 mm)	32' 8.5" (9970 mm)	39' 10.9" (12165 mm)
Max. depth to 8' line	J	23' 6.1" (7165 mm)	25' 0.6" (7635 mm)	49' 2.9" (15010 mm)
Min. radius to 8' line	K	12' 8.9" (3885 mm)	13' 9.3" (3895 mm)	20' 2.7" (6165 mm)
Min. digging reach	L	6' 7.1" (2010 mm)	2' 9.1" (840 mm)	0' 1.6" (40 mm)
Min. swing radius	M	17' 2.1" (5235 mm)	17' 1.1" (5210 mm)	25' 8.1" (7825 mm)
Bucket angle (DEG)	d	181.2°	189.1°	177.6°
Digging force, bucket*	ISO	67901.7 lbf. (30800 kgf)	67901.7 lbf. (30800 kgf)	37478.2 lbf. (17000 kgf)
Digging force, arm*		56878.7 lbf. (25800 kgf)	50044.4 lbf. (22700 kgf)	26234.7 lbf. (11900 kgf)
Operating weight		121805 lb. (55250 kg)	122050 lb. (55361 kg)	121168 lb. (54961 kg)
Ground pressure		9.1 psi (0.63 kg/cm <sup>2</sup> )		

\*With power boost ON



# Lifting Capacity

Rating over front    Rating over side or 360°

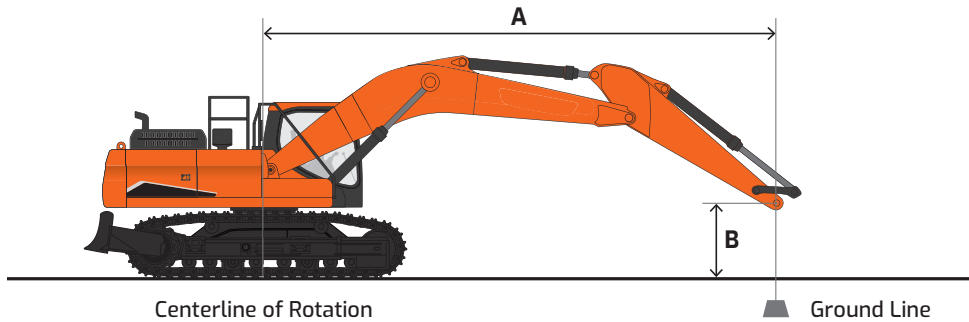
## DX530LC-7 US20

Boom: 23' 3.5" (7100 mm) | Arm: 9' 6.1" (2900 mm) | Removable Counterweight: 24471 lb. (11100 kg) | 35.4" (900 mm) Shoes | Bucket: None | Unit: lb. (kg)

B (ft. or m)	A (ft. or m)		10' (3.0 m)		15' (4.5 m)		20' (6.0 m)		25' (7.5 m)		30' (9.0 m)		Max. Reach		A
30' (9.0 m)													* 25980 (* 11780)	* 25980 (* 11780)	23.79' (7.38 m)
25' (7.5 m)									* 26100 (* 11840)	* 26100 (* 11840)			* 24520 (* 11120)	* 24520 (* 11120)	27.64' (8.5 m)
20' (6.0 m)							* 31360 (* 14220)	* 31360 (* 14220)	* 27550 (* 12490)	* 27550 (* 12490)	* 25.670 (* 11640)	25590 (11610)	* 24110 (* 10930)	* 24110 (* 10930)	30.17' (9.23 m)
15' (4.5 m)							* 36160 (* 16400)	* 36160 (* 16400)	* 29930 (* 13580)	* 29930 (* 13580)	* 26550 (* 12040)	25180 (11420)	* 24430 (* 11080)	22490 (10200)	31.72' (9.68 m)
10' (3.0 m)							* 40890 (* 18550)	* 40890 (* 18550)	* 32480 (* 14730)	31940 (14490)	* 27780 (* 12600)	24650 (11180)	* 25440 (* 11540)	21510 (9760)	32.41' (9.88 m)
5' (1.5 m)							* 43970 (* 19950)	42510 (19280)	* 34450 (* 15630)	31090 (14100)	* 28770 (* 13050)	24180 (10970)	* 26390 (* 11970)	21350 (9680)	32.32' (9.85 m)
Ground Level			* 41420 (* 18790)	* 41420 (* 18790)	* 44830 (* 20340)	41850 (18980)	* 35290 (* 16010)	30570 (13870)	* 28980 (* 13140)	23890 (10840)	* 26850 (* 12180)	22020 (9990)	* 26850 (* 12180)	22020 (9990)	31.42' (9.58 m)
-5' (-1.5 m)			* 56080 (* 25440)	* 56080 (* 25440)	* 43550 (* 19750)	41740 (18930)	* 34540 (* 15670)	* 30430 (* 13800)	* 27490 (* 12470)	23920 (10850)	* 27230 (* 12350)	23770 (10780)	* 27230 (* 12350)	23770 (10780)	29.82' (9.05 m)
-10' (-3.0 m)	* 62570 (* 28380)	* 62570 (* 28380)	* 50420 (* 22870)	* 50420 (* 22870)	* 39880 (* 18090)	* 39880 (* 18090)	* 31380 (* 14230)	30710 (13930)					* 27250 (* 12360)	* 27250 (* 12360)	26.82' (8.21 m)
-15' (-4.5 m)	* 49990 (* 22680)	* 49990 (* 22680)	* 40990 (* 18600)	* 40990 (* 18600)	* 32310 (* 14650)	* 32310 (* 14650)							* 26090 (* 11840)	* 26090 (* 11840)	22.54' (6.95 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°

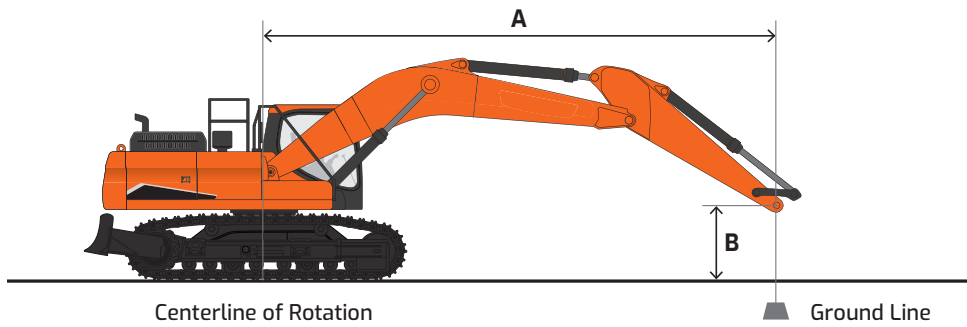
## DX530LC-7 US30

Boom: 23' 3.5" (7100 mm) | Arm: 10' 11.9" (3350 mm) | Removable Counterweight: 24471 lb. (11100 kg) | 35.4" (900 mm) TG Shoes | Bucket: None | Unit: lb. (kg)

A (ft. or m) B (ft. or m)	10' (3.0 m)		15' (4.5 m)		20' (6.0 m)		25' (7.5 m)		30' (9.0 m)		Max. Reach		
													A
30' (9.0 m)							* 24150 (* 10620)	* 24150 (* 10620)			* 18740 (* 8370)	* 18740 (* 8370)	25.97 (7.81 m)
25' (7.5 m)							* 24160 (10920)	* 24160 (10920)			* 17780 (* 8090)	* 17780 (* 8090)	29.4' (8.87 m)
20' (6.0 m)							* 25790 (* 11600)	* 25790 (* 11600)	* 24000 (* 10850)	21670 (8810)	* 17520 (* 7950)	* 17520 (* 7950)	31.7' (9.61 m)
15' (4.5 m)			* 45500 (* 20120)	* 45500 (* 20120)	* 33940 (* 15160)	* 33940 (* 15160)	* 28310 (* 12720)	27910 (11370)	* 25150 (* 11350)	21170 (8600)	* 17770 (* 8040)	17610 (7160)	33.12' (10.06 m)
10' (3.0 m)			* 47520 (* 23290)	* 47520 (* 23290)	* 38940 (* 17450)	36820 (14900)	* 31060 (* 13970)	26800 (10870)	* 26600 (* 12000)	20570 (8330)	* 18500 (* 8340)	16810 (6790)	33.74' (10.28 m)
5' (1.5 m)			* 37470 (* 16870)	* 37470 (* 16870)	* 42580 (* 19190)	35250 (14180)	* 33330 (* 15030)	25850 (10440)	* 27840 (* 12580)	20030 (8090)	* 19780 (* 8900)	16630 (6680)	33.63' (10.26 m)
Ground Level			* 47080 (* 20730)	* 47080 (* 20730)	* 44130 (* 19990)	34390 (13770)	* 34560 (* 15650)	25230 (10150)	* 28420 (* 12890)	19660 (7910)	* 21860 (* 9800)	17060 (6830)	32.78' (10.03 m)
-5' (-1.5 m)	* 37920 (* 16320)	* 37920 (* 16320)	* 57320 (* 26160)	52940 (20910)	* 43540 (* 19820)	34120 (13620)	* 34340 (* 15620)	24970 (10010)	* 27740 (* 12650)	19550 (7850)	* 25240 (* 11250)	18290 (7280)	31.12' (9.55 m)
-10' (-3.0 m)	* 58130 (* 25370)	* 58130 (* 25370)	* 52410 (* 24050)	* 52410 (* 24050)	* 40690 (* 18640)	34320 (13690)	* 32090 (* 14720)	25110 (10060)			* 25940 (* 11760)	20760 (8210)	28.5' (8.79 m)
-15' (-4.5 m)	* 56450 (* 26290)	* 56450 (* 26290)	* 44170 (* 20510)	* 44170 (* 20510)	* 34590 (* 16070)	* 34590 (* 16070)	* 25590 (* 12090)	* 25590 (* 12090)			* 25460 (* 11600)	* 25460 (* 11600)	24.64' (7.65 m)
-20' (-6.0 m)			* 31420 (* 14280)	* 31420 (* 14280)							* 22790 (* 10360)	* 22790 (* 10360)	19.49' (5.94 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)	■
Variable geometry (VGT)	■
Cooled exhaust gas recirculation (CEGR)	■
Exhaust brake	■
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	■
Precleaner	■
Electronic engine control (ECU)	■
Auto idle	■
Auto shutdown (time-adjustable)	■
Overheat & low oil pressure engine protection	■
Block heater (110 V)	●
Water separator with heater	■
Fuel filler pump	●

## Hydraulic

Mechatronics Design	■
Bent axial piston main pump (tandem)	■
Cross-sensing pump control	■
Pilot-operated control valves	■
Gear pilot pump	■
D-ECOPOWER™ system	■
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	●
Boom & arm lock valves	●

## 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 radiant 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 – 28 V, 100 A	■
2 x 12 V batteries, 200 AH reserve capacity, 1300 CCA	■
Blade-type fuse panel	■
Main circuit breaker	■
Lights, work (halogen): machine (2), boom (2)	■
Lights, work (LED): machine (2), boom (2)	●
Lights, work (halogen): cabin (2)	●
Lights, work (halogen): 4 cab top, front (2), rear (2)	●
Rotating beacon	■
Overload warning alarm	●
Hour meter	■
Engine restart prevention system	■
Rearview camera	■
Side view camera, right side	●
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 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

Variable track width	■
Track guards & chains with adjusters	■
Track rollers, upper	3
Track rollers, lower	9
In-shoe motor protection	■
Shoes, double grouser – 600 mm	●
Shoes, triple grouser – 600 mm	●
Shoes, triple grouser – 750 mm	●
Shoes, triple grouser – 800 mm	●
Shoes, triple grouser – 900 mm	■

## Frame

Counterweight, fixed	●
Counterweight, removable	■
Catwalks	■

## Other

Centralized lubrication - Boom - Arm - 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)	■
Vandalism 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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DX530LC-7 Crawler Excavator Spec Sheet  
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