

DEVELON

Crawler Excavator

DX400LC-9



Engine

Make	DEVELON
Model	DX08
Number of cylinders	6
Rated power, gross (hp per SAE J1995)	340.6 hp (254.0 kW) @ 1800 rpm
Rated power, net (hp per SAE J1349)	336.6 hp (251.0 kW) @ 1800 rpm
Max. torque, gross (SAE J1995)	1076.8 ft.-lb. (1460.0 Nm) @ 1300 rpm
Displacement	459.3 in. ³ (7.5 L)
Bore and stroke	4.3" x 5.2" (110 mm x 132 mm)
Starter	24 V, 8.0 hp (6.0 kW)
Battery	2 x 12 V, 150 AH
Alternator	24 V, 90 A
Air cleaner	Three-stage

Hydraulics

Main pumps	2 x 95.1 gpm (2 x 360.0 L/min.)
Pilot pump (gear design)	6.4 gpm (24.1 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	4978.2 psi (350.0 kg/cm ²)
Swing	4267.0 psi (300.0 kg/cm ²)
Pilot	583.1 psi (41.0 kg/cm ²)

Undercarriage

Upper rollers (each track)	2
Lower rollers (each track)	9
Number of shoes (links per side)	50

Swing Mechanism

Max. swing speed	9.7 rpm
Max. swing torque	106947.0 lbf.-ft. (14786.0 kgf-m)

Drive System

Travel speed [low – high]	2.0 – 3.5 mph (3.2 – 5.6 km/h)
Traction force, max. (drawbar pull)	94869.4 lbf. (43032.0 kgf)
Max. grade (limited by engine lub)	70% (35°)

Environment

Sound level (2000/14/EC)	105 dB(A)
Cabin sound level (ISO 6396)	69 dB(A)

Refill Capacities

Fuel tank	156.4 gal. (592.0 L)
DEF tank	19.0 gal. (72.0 L)
Cooling system (radiator capacity)	12.4 gal. (46.8 L)
Engine oil (with filter)	9.2 gal. (35.0 L)
Swing drive	4.0 gal. (15.0 L)
Final drive (each side)	2.1 gal. (7.8 L)
Hydraulic system	125.5 gal. (475.0 L)
Hydraulic tank	64.2 gal. (243.0 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	6.3" x 4.1" x 57.1" (160 mm x 105 mm x 1450 mm)
Arm ^{1,2} (1) bore x rod diameter x stroke	6.7" x 4.7" x 71.1" (170 mm x 120 mm x 1805 mm)
Bucket (STD) ¹ (1) bore x rod diameter x stroke	5.9" x 3.9" x 51.2" (150 mm x 100 mm x 1300 mm)

¹ Cushion on rod end

² Cushion on base end

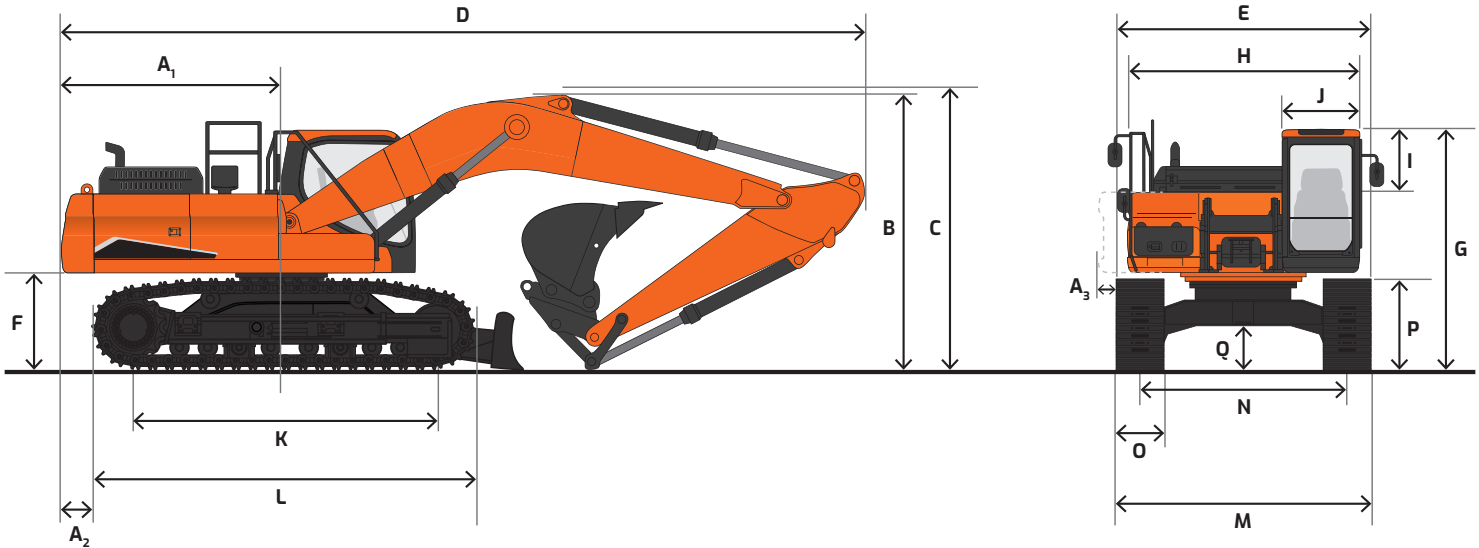
The piston rods and cylinder bodies are made of high-strength steel. A shock-absorbing mechanism is fitted in all cylinders to ensure shock-free operation and extended piston life.

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

		HD Boom & HD Standard Arm 35.4" (900 mm) TG Shoe (US20/US25)	Standard Boom & Long Arm 35.4" (900 mm) TG Shoe (US30/US35)
Boom length		21' 3.9" (6500 mm)	
Arm length		10' 6.0" (3200 mm)	12' 11.5" (3950 mm)
Bucket size (SAE)		2.90 yd³ (2.22 m³)	2.37 yd³ (1.81 m³)
Tail swing radius	A	11' 6.9" (3527 mm)	
Shipping height (boom)	B	10' 11.3" (3336 mm)	11' 1.5" (3392 mm)
Shipping height (hose)	C	11' 4.1" (3458 mm)	11' 6.9" (3528 mm)
Shipping length	D	37' 0.3" (11286 mm)	37' 0.5" (11291 mm)
Shipping width	E	11' 11.7" (3650 mm)	
Counterweight clearance*	F	4' 2.3" (1277 mm)	
Cabin height	G	10' 10.6" (3317 mm)	
Upper structure width	H	9' 9.7" (2990 mm)	
Cabin height above house	I	1' 11.9" (607 mm)	
Cabin width	J	3' 4.0" (1015 mm)	
Tumbler distance	K	13' 10.5" (4230 mm)	
Overall track length	L	17' 0.1" (5185 mm)	
Undercarriage width	M	11' 11.7" (3650 mm)	
Track shoe width	N	35.4" (900 mm)	
Track height*	O	3' 6.0" (1066 mm)	
Car body clearance*	P	1' 11.7" (601 mm)	

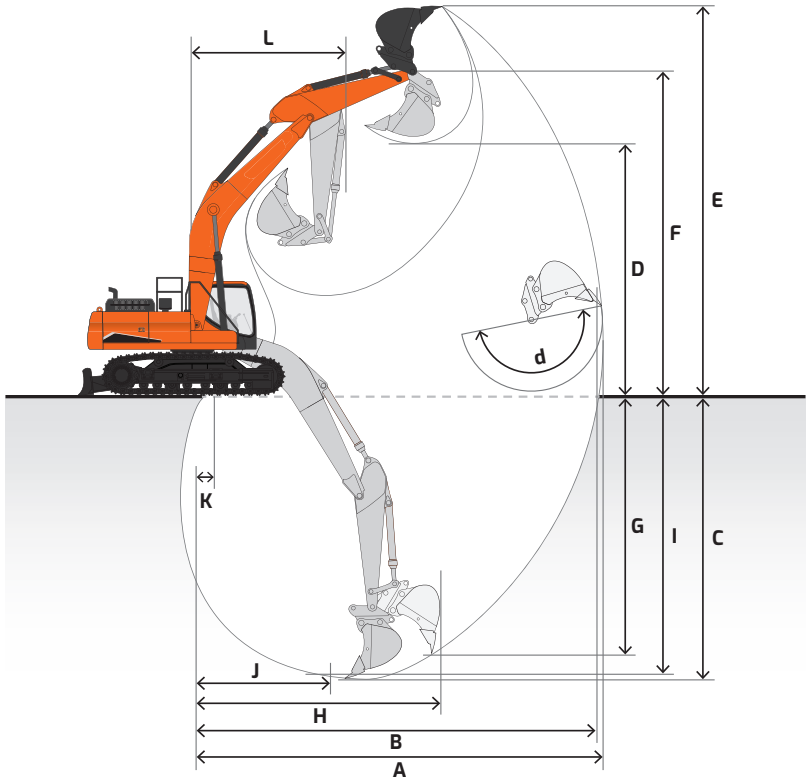
*Without shoe grouser



Working Range

		HD Boom & HD Standard Arm 35.4" (900 mm) TG Shoe (US20/US25)	Standard Boom & Long Arm 35.4" (900 mm) TG Shoe (US30/US35)
Boom length		21' 3.9" (6500 mm)	
Arm length		10' 6.0" (3200 mm)	12' 11.5" (3950 mm)
Bucket size (SAE)		2.90 yd³ (2.22 m³)	2.37 yd³ (1.81 m³)
Counterweight		17637 lb. (8000 kg)	
Track type		Fixed	
Max. digging reach	A	36' 5.4" (11110 mm)	38' 11.3" (11870 mm)
Max. digging reach (ground)	B	35' 9.1" (10900 mm)	38' 3.4" (11670 mm)
Max. digging depth	C	24' 3.3" (7400 mm)	26' 9.3" (8160 mm)
Max. loading height	D	23" 11.8" (7310 mm)	25' 5.9" (7770 mm)
Max. digging height	E	33' 9.1" (10290 mm)	35' 4.8" (10790 mm)
Max. bucket pin height	F	29' 5" (8960 mm)	30' 11" (9420 mm)
Max. vertical wall depth	G	18' 8.8" (5710 mm)	21' 9.4" (6640 mm)
Max. radius vertical	H	25' 9" (7860 mm)	26' 1" (7960 mm)
Max. depth to 8' line	I	23' 8.3" (7220 mm)	26' 3.7" (8020 mm)
Min. radius to 8' line	J	11' 0" (3350 mm)	11' 3" (3420 mm)
Min. digging reach	K	2' 4" (700 mm)	-2' 11" (-340 mm)
Min. swing radius	L	14' 7.2" (4450 mm)	14' 9.6" (4510 mm)
Bucket angle (DEG)	d	178	178
Digging force, bucket*	ISO	59350.0 lbf. (26921 kgf)	58226.0 lbf. (26411 kgf)
Digging force, arm*		41140.0 lbf. (18661 kgf)	35520.0 lbf. (16112 kgf)
Operating weight		97025 lb. (44010 kg)	96011 lb. (43550 kg)
Ground pressure		7.5 psi (0.53 kg/cm²)	7.4 psi (0.52 kg/cm²)

*With power boost ON



Lifting Capacity

 Rating over front  Rating over side or 360°

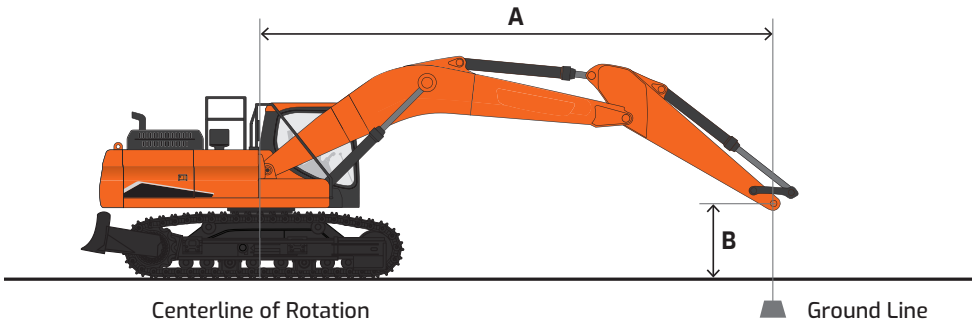
DX400LC-9 US20/US25

Boom: 21' 3.9" (6500 mm) | Arm: 10' 6.0" (3200 mm) | Counterweight: 17637 lb. (8000 kg) | 35.4" (900 mm) TG Shoes | No Dozer | Bucket: None | Unit: lb. (kg)

A B (ft. or m)	4.9' (1.5 m)		9.8' (3.0 m)		14.8' (4.5 m)		19.7' (6.0 m)		24.6' (7.5 m)		29.5' (9.0 m)		Max. Reach		A
															
24.6' (7.5 m)									* 20550 (* 9320)	* 20550 (* 9320)			* 17130 (* 7770)	* 17130 (* 7770)	25.60' (7.80 m)
19.7' (6.0 m)									* 21100 (* 9570)	20940 (9500)			* 16760 (* 7600)	16580 (7520)	28.40' (8.65 m)
14.8' (4.5 m)					* 32870 (* 14910)	* 32870 (* 14910)	* 26170 (* 11870)	* 26170 (* 11870)	* 22800 (* 10340)	20390 (9250)	* 20060 (* 9100)	15340 (6960)	* 16980 (* 7700)	14860 (6740)	30.10' (9.18 m)
9.8' (3.0 m)					* 41600 (* 18870)	41250 (18710)	* 30340 (* 13760)	27140 (12310)	* 24960 (* 11320)	19690 (8930)	* 22000 (* 9980)	15040 (6820)	* 17730 (* 8040)	13980 (6340)	30.90' (9.43 m)
4.9' (1.5 m)					* 46890 (* 21270)	39090 (17730)	* 33860 (* 15360)	25950 (11770)	* 26960 (* 12230)	19030 (8630)	22550 (10230)	14700 (6670)	* 19110 (* 8670)	13710 (6220)	31.00' (9.44 m)
Ground Level					* 48300 (* 21910)	38210 (17330)	* 35830 (* 16250)	25220 (11440)	* 28200 (* 12790)	18560 (8420)	22310 (10120)	14480 (6570)	* 21380 (* 9700)	14040 (6370)	30.20' (9.20 m)
-4.9' (-1.5 m)			* 31090 (* 14100)	* 31090 (* 14100)	* 47950 (* 21750)	38100 (17280)	* 35870 (* 16270)	24930 (11310)	* 28150 (* 12770)	18360 (8330)			23350 (10590)	15100 (6850)	28.50' (8.70 m)
-9.8' (-3.0 m)	* 37210 (* 16880)	* 37210 (* 16880)	* 50180 (* 22760)	* 50180 (* 22760)	* 44220 (* 20060)	38450 (17440)	* 33690 (* 15280)	25070 (11370)	* 25990 (* 11790)	18520 (8400)			* 24070 (* 10920)	17390 (7890)	25.90' (7.88 m)
-14.8' (-4.5 m)			* 49210 (* 22320)	* 49210 (* 22320)	* 37060 (* 16810)	* 37060 (* 16810)	* 27950 (* 12680)	25660 (11640)					* 24210 (* 10980)	22490 (10200)	21.70' (6.62 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°

DX400LC-9 US30/US35

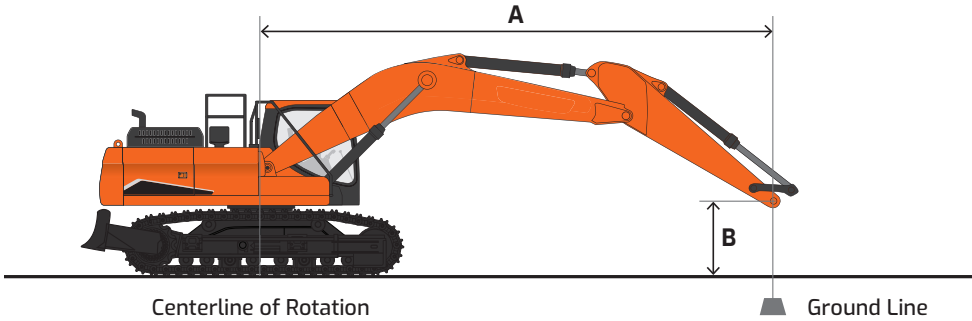
Boom: 21' 3.9" (6500 mm) | Arm: 12' 11.5" (3950 mm) | Counterweight: 17637 lb. (8000 kg) | 35.4" (900 mm) TG Shoes | No Dozer | Bucket: None | Unit: lb. (kg)

A B (ft. or m)	4.9' (1.5 m)		9.8' (3.0 m)		14.8' (4.5 m)		19.7' (6.0 m)		24.6' (7.5 m)		29.5' (9.0 m)		Max. Reach		A
															
29.5' (9.0 m)									* 14130 (* 6410)	* 14130 (* 6410)			* 13430 (* 6090)	* 13430 (* 6090)	24.90' (7.58 m)
24.6' (7.5 m)													* 12520 (* 5680)	* 12520 (* 5680)	28.60' (8.71 m)
19.7' (6.0 m)									* 18870 (* 8560)	* 18870 (* 8560)	* 16580 (* 7520)	15810 (7170)	* 12190 (* 5530)	* 12190 (* 5530)	31.10' (9.48 m)
14.8' (4.5 m)							* 23280 (* 10560)	* 23280 (* 10560)	* 20770 (* 9420)	20640 (9360)	* 19360 (* 8780)	15500 (7030)	* 12260 (* 5560)	* 12260 (* 5560)	32.70' (9.96 m)
9.8' (3.0 m)					* 36910 (* 16740)	* 36910 (* 16740)	* 27730 (* 12580)	27560 (12500)	* 23190 (* 10520)	19840 (9000)	* 20590 (* 9340)	15080 (6840)	* 12650 (* 5740)	12410 (5630)	33.40' (10.19 m)
4.9' (1.5 m)					* 44380 (* 20130)	39660 (17990)	* 31880 (* 14460)	26150 (11860)	* 25550 (* 11590)	19070 (8650)	* 21890 (* 9930)	14660 (6650)	* 13430 (* 6090)	12170 (5520)	33.50' (10.20 m)
Ground Level			* 17390 (* 7890)	* 17390 (* 7890)	* 48150 (* 21840)	38180 (17320)	* 34680 (* 15730)	25180 (11420)	* 27320 (* 12390)	18450 (8370)	22160 (10050)	14330 (6500)	* 14700 (* 6670)	12390 (5620)	32.80' (9.98 m)
-4.9' (-1.5 m)	* 18410 (* 8350)	* 18410 (* 8350)	* 27840 (* 12630)	* 27840 (* 12630)	* 48590 (* 22040)	37650 (17080)	* 35710 (* 16200)	24670 (11190)	* 28020 (* 12710)	18120 (8220)	21980 (9970)	14150 (6420)	* 16780 (* 7610)	13140 (5960)	31.20' (9.52 m)
-9.8' (-3.0 m)	* 29740 (* 13490)	* 29740 (* 13490)	* 41270 (* 18720)	* 41270 (* 18720)	* 46340 (* 21020)	37740 (17120)	* 34720 (* 15750)	24600 (11160)	* 27140 (* 12310)	18080 (8200)			* 20370 (* 9240)	14730 (6680)	28.80' (8.78 m)
-14.8' (-4.5 m)	* 43430 (* 19700)	* 43430 (* 19700)	* 57170 (* 25930)	* 57170 (* 25930)	* 41120 (* 18650)	38320 (17380)	* 31110 (* 14110)	24930 (11310)	* 23280 (* 10560)	18450 (8370)			* 22290 (* 10110)	17920 (8130)	25.20' (7.68 m)
-19.7' (-6.0 m)			* 41930 (* 19020)	* 41930 (* 19020)	* 30950 (* 14040)	* 30950 (* 14040)	* 21760 (* 9870)	* 21760 (* 9870)					* 21720 (* 9850)	* 21720 (* 9850)	19.70' (6.00 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)	■
Twin turbo	■
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	■
Precleaner	■
Electronic engine control (ECU)	■
Auto idle	■
Auto shutdown (time-adjustable)	■
Overheat & low oil pressure engine protection	■
Water separator with heater	■

Hydraulic

Electronic Power Optimizing System (EPOS)	■
Variable axial piston main pump (tandem)	■
Cross-sensing pump control	■
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	■
Boom & arm lock valves	●
Straight travel	■

Controls

Electronic joystick controls	■
Proportional control on joystick swithes for auxiliary hydraulic lines	■
Customizable joystick buttons - Right (two on front, two on back) - Left (two on front, two on back)	■
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	■
Stick steer (joystick steering functionality)	■
Multifunction keypad - Intelligent floating boom - Swing lock	■ - Fine swing - Warning lamp
Keypad - Lower wiper & washer - Upper wiper, Panto wiper & washer - Light	■ - Cabin work light - Travel alarm mute - Travel speed selector
Emergency stop switch	■
Power modes (P+, P, S, E)	■
Work modes (digging, lifting, breaker, shear)	■
Jog dial display control	■
Hydraulic flow & pressure rate controlled from cab	■

Cabin

Steel, all-weather & sound-suppressed	■
ROP5 (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" 2 point seat belt	■ - Adjustable height & recline - Adjustable fore/aft - Adjustable armrests
Leatherette seat - Heating & cooling - Air-suspension - 2" 3 point 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	■
New 12" Android touchscreen full HD monitor	■
Additional 12" monitor	■
Digital Bluetooth® & MP3 radio with cell phone integration	■
Wireless phone charger	■
Speakers (2)	■
Emergency breakout tool	■
Hot/cold beverage compartment	■
Power socket, 12 V & 24 V	■
USB port	■
Cup holder	■
Interior light	■
Ambient light	■
Rain shield	●
FOG guard	●
Front window guard	●

Electrical

System voltage – 24 V	■
Alternator – 24 V, 90 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)	■
Four-corner beacon light	■
Hour meter	■
Engine restart prevention system	■
Side view & rearview camera with LED lamps	■
Smart AVM	●
HDS (Human Detection System) with around-view camera & radar	●
DEVELON Collision Avoidance Assist (DCAA)	●
Laptop service port	■
Self-diagnostics system	■
Smart Key with Digital Key app	■
MY DEVELON (telematics)	■
2D Smart Guidance System with laser receiver	■
Virtual walls, weighing system, lift assist	■
Advanced lift assist	●

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
Smart Guidance 2D screen - Set assist mode - Set grade precision - Set grade mode - Vitrual wall limits - Laser indicator - Vertical distance from target position - Pitch & roll angle indicators - Bucket angle indicator - Bucket tooth depth indicator zones - Slope indicator - Active bucket name - Horizontal distance between bucket tooth & reference point	■
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	9
In-shoe motor protection	■
Shoes, triple grouser – 900 mm	■

Frame

Catwalk	●
Side protector	●

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	■
Basic PHM (Prognostics & Health Management)	■
Premium PHM	●
Auto greasing unit	●

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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