

DEVELON

Crawler Excavator

DX235LCR-7



Engine

Make	DEVELON
Model	DL06P
Number of cylinders	6
Rated power, gross (hp per SAE J1995)	189.1 hp (141.0 kW) @ 1900 rpm
Rated power, net (hp per SAE J1349)	170.3 hp (127.0 kW) @ 1900 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, 8.0 hp (6.0 kW)
Battery	2 x 12 V, 100 AH
Alternator	24 V, 80 A
Air cleaner	Two-stage

Hydraulics

Main pumps	2 x 58.7 gpm (2 x 222.0 L/min.)
Pilot pump (gear design)	6.9 gpm (26.0 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	4267.0 psi (300.0 kg/cm ²)
Pilot	568.9 psi (40.0 kg/cm ²)

Undercarriage

Upper rollers (each track)	2
Lower rollers (each track)	9
Number of shoes (links per side)	49

Swing Mechanism

Swing speed	0 – 11.5 rpm
Swing torque	69625.0 lbf.-ft. (9626.0 kgf-m)

Drive System

Travel speed (low – high)	2.0 – 3.6 mph (3.2 – 5.8 km/h)
Traction force, max. (drawbar pull)	64375.0 lbf. (29200.0 kgf)
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	81.1 gal. (307.0 L)
DEF tank	8.3 gal. (31.5 L)
Cooling system (radiator capacity)	8.5 gal. (32.1 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	50.2 gal. (190.0 L)
Hydraulic tank	34.3 gal. (130.0 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	5.1" x 3.5" x 53.3" (130 mm x 90 mm x 1355 mm)
Arm ^{1,2} (1) bore x rod diameter x stroke	5.3" x 3.7" x 58.7" (135 mm x 95 mm x 1490 mm)
Bucket 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

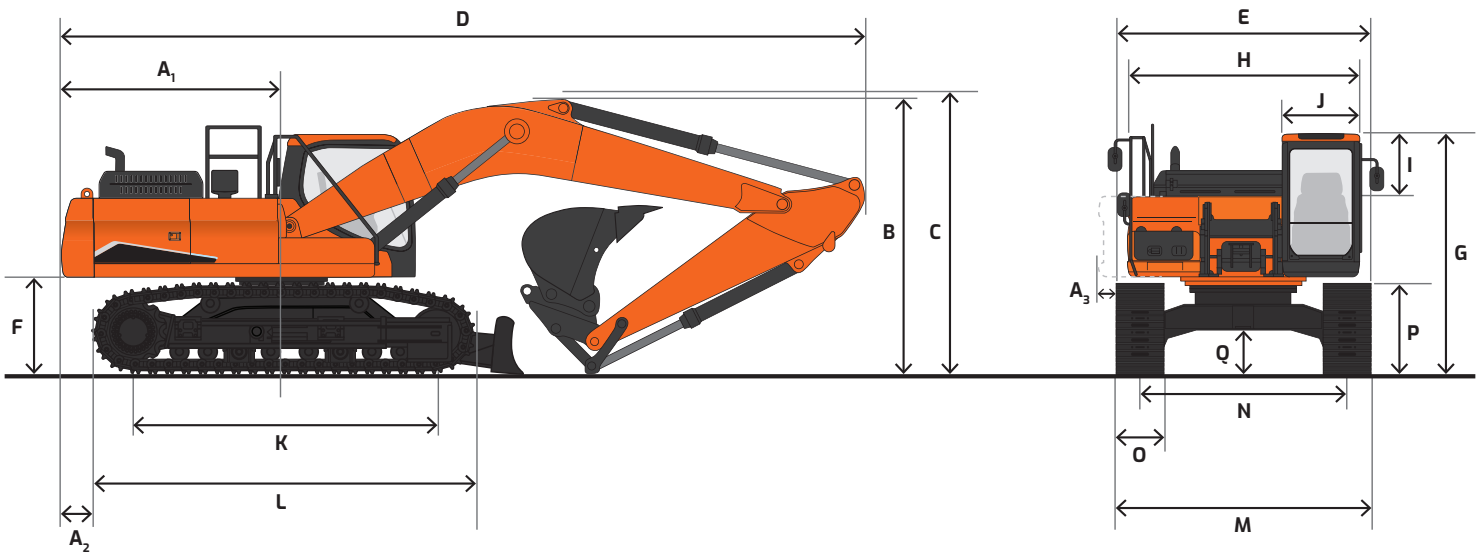
The piston rods and cylinder bodies are made of high-strength steel. A shock-absorbing mechanism is fitted in all cylinders to ensure shock-free operation and extended piston life.

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)	Standard Arm & Dozer Blade 23.6" (600 mm) TG Shoe (US40)
Boom length		18' 8.4" (5700 mm)	
Arm length		9' 6.2" (2900 mm)	
Bucket size (SAE)		1.2 yd ³ (0.92 m ³)	
Tail swing radius	A ₁	5' 7.9" (1724 mm)	
Tail swing overhang (rear)	A ₂	-1' 7.6" (-499 mm)	
Tail swing overhang (side)	A ₃	5.1" (129 mm)	9.0" (229 mm)
Shipping height (boom)		9' 5.0" (2871 mm)	
Shipping height (hose)		9' 9.3" (2980 mm)	
Shipping length		29' 5.1" (8970 mm)	
Shipping width		10' 5.6" (3190 mm)	9' 9.7" (2990 mm)
Counterweight clearance*		3' 7.0" (1092 mm)	
Cabin height		10' 3.0" (3123 mm)	
Upper structure width		9' 5.0" (2870 mm)	
Cabin height above house		2' 2.8" (680 mm)	
Cabin width		3' 4.2" (1022 mm)	
Tumbler distance		11' 11.7" (3650 mm)	
Overall track length		14' 7.0" (4446 mm)	
Undercarriage width		10' 5.6" (3190 mm)	9' 9.7" (2990 mm)
Track gauge width		7' 10.1" (2390 mm)	
Track shoe width		31.5" (800 mm)	23.6" (600 mm)
Track height*		2' 10.8" (883 mm)	
Car body clearance*		1' 5.7" (450.5 mm)	

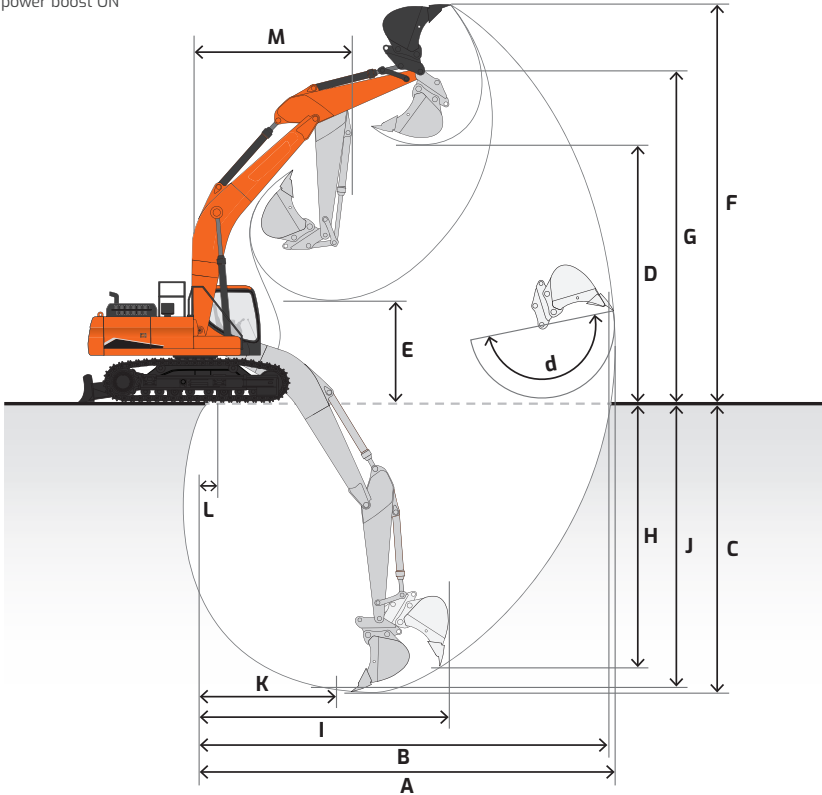
*Without shoe grouser



Working Range

		Standard Arm 31.5" (800 mm) TG Shoe (US20)	Standard Arm & Dozer Blade 23.6" (600 mm) TG Shoe (US40)
Boom length		18' 8.4" (5700 mm)	
Arm length		9' 6.2" (2900 mm)	
Bucket size (SAE)		1.2 yd ³ (0.92 m ³)	
Counterweight		16390 lb. (7450 kg)	
Track type		Fixed	
Max. digging reach	A	32' 3.0" (9830 mm)	
Max. digging reach (ground)	B	31' 7.7" (9645 mm)	
Max. digging depth	C	21' 11.0" (6680 mm)	
Max. loading height	D	26' 0.6" (7940 mm)	
Min. loading height	E	10' 3.8" (3145 mm)	
Max. digging height	F	35' 5.4" (10805 mm)	
Max. bucket pin height	G	30' 10.3" (9405 mm)	
Max. vertical wall depth	H	17' 6.2" (5340 mm)	
Max. radius vertical	I	21' 6.9" (6575 mm)	
Max. depth to 8' line	J	21' 2.1" (6455 mm)	
Min. radius to 8' line	K	8' 5.0" (2565 mm)	
Min. digging reach	L	1' 2.8" (375 mm)	
Min. swing radius	M	7' 6.9" (2310 mm)	
Bucket angle (DEG)	d	177°	
Digging force, bucket*	ISO	36376.3 lbf. (16500 kgf)	
Digging force, arm*		24691.8 lbf. (11200 kgf)	
Operating weight		57133 lb. (25915 kg)	59439 lb. (26961 kg)
Ground pressure		7.7 psi (0.54 kg/cm ²)	8.0 psi (0.56 kg/cm ²)

*With power boost ON



Lifting Capacity

 Rating over front  Rating over side or 360°

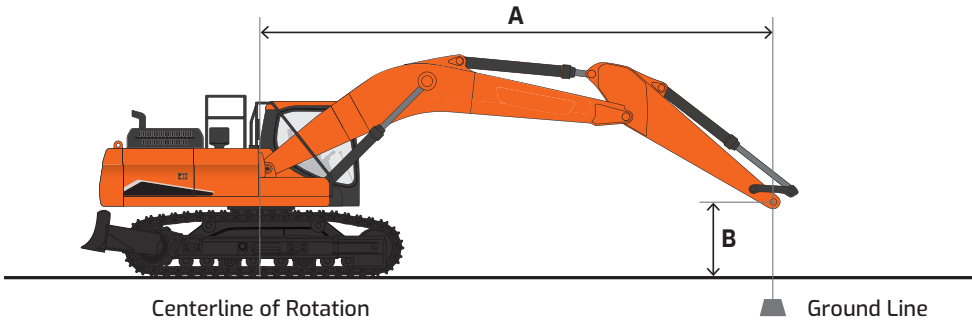
DX235LCR-7 US20

Boom: 18' 8.4" (5700 mm) | Arm: 9' 6.2" (2900 mm) | Counterweight: 16390 lb. (7450 kg) | 31.5" (800 mm) TG Shoes | No Dozer | Bucket: None | Unit: lb. (kg)

A B (ft. or m) (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
													
30' (9.0 m)											* 12490 (* 5670)	* 12490 (* 5670)	14.23' (4.34 m)
25' (7.5 m)					* 13710 (* 6220)	* 13710 (* 6220)	* 11800 (* 5350)	* 11800 (* 5350)			* 10580 (* 4800)	* 10580 (* 4800)	20.3' (6.19 m)
20' (6.0 m)					* 14720 (* 6670)	* 14720 (* 6670)	* 13980 (* 6340)	12510 (5670)			* 9980 (* 4520)	9060 (4110)	23.9' (7.28 m)
15' (4.5 m)			* 23540 (* 10680)	* 23540 (* 10680)	* 17880 (* 8110)	* 17880 (* 8110)	* 15320 (* 6950)	12090 (5490)	13490 (6120)	8520 (3860)	* 9930 (* 4500)	7730 (3510)	26.08' (7.95 m)
10' (3.0 m)					* 22350 (* 10140)	17500 (7940)	* 17340 (7870)	11500 (5220)	13220 (5990)	8260 (3750)	* 10280 (* 4660)	7060 (3200)	27.21' (8.29 m)
5' (1.5 m)					* 26140 (* 11860)	16300 (7390)	17990 (8160)	10920 (4960)	12910 (5860)	7990 (3620)	11010 (5000)	6830 (3100)	27.41' (8.36 m)
Ground Level			* 14530 (* 6590)	* 14530 (* 6590)	27650 (12540)	15680 (7110)	17550 (7960)	10530 (4780)	12690 (5760)	7780 (3530)	11310 (5130)	6970 (3160)	26.71' (8.14 m)
-5' (-1.5 m)	* 15830 (* 7180)	* 15830 (* 7180)	* 24650 (* 11180)	* 24650 (* 11180)	* 27060 (* 12280)	15530 (7040)	17380 (7880)	10380 (4710)	12640 (5740)	7740 (3510)	12360 (5610)	7580 (3440)	25.03' (7.63 m)
-10' (-3.0 m)	* 26420 (* 11980)	* 26420 (* 11980)	* 33360 (* 15130)	30470 (13820)	* 24290 (* 11020)	15710 (7130)	17510 (7940)	10500 (4760)			14830 (6730)	9040 (4100)	22.14' (6.75 m)
-15' (-4.5 m)			* 24650 (* 11180)	* 24650 (* 11180)	* 18180 (* 8240)	16290 (7390)					* 14630 (* 6640)	12960 (5880)	17.41' (5.31 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°

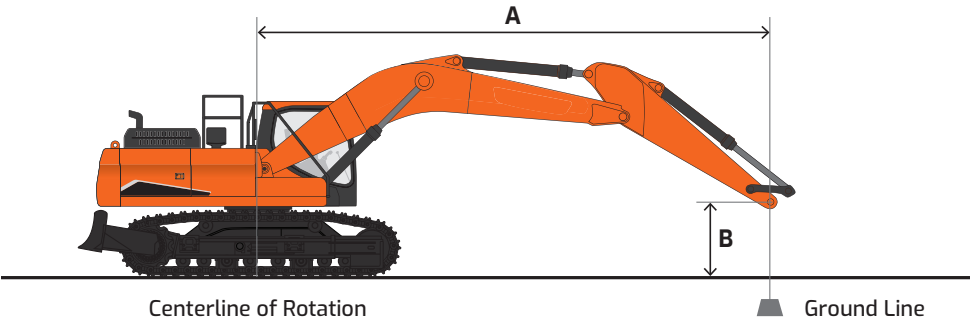
DX235LCR-7 US40

Boom: 18' 8.4" (5700 mm) | Arm: 9' 6.2" (2400 mm) | Counterweight: 16390 lb. (7450 kg) | 23.6" (600 mm) TG Shoes | Dozer Up | Bucket: None | Unit: lb. (kg)

A 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	
30' (9.0 m)											* 12490 (* 5670)	* 12490 (* 5670)	14.23' (4.34 m)	
25' (7.5 m)					* 13710 (* 6220)	* 13710 (* 6220)	* 11800 (* 5350)	* 11800 (* 5350)			* 10580 (* 4800)	* 10580 (* 4800)	20.3' (6.19 m)	
20' (6.0 m)					* 14720 (* 6670)	* 14720 (* 6670)	* 13980 (* 6340)	12970 (5890)			* 9980 (* 4520)	9420 (4270)	23.9' (7.28 m)	
15' (4.5 m)			* 23540 (* 10680)	* 23540 (* 10680)	* 17880 (* 8110)	* 17880 (* 8110)	* 15320 (* 6950)	12560 (5700)	* 13650 (* 6190)	8870 (4020)	* 9930 (* 4500)	8060 (3660)	26.08' (7.95 m)	
10' (3.0 m)					* 22350 (* 10140)	18180 (8250)	* 17340 (* 7870)	11970 (5430)	14440 (6550)	8620 (3910)	* 10280 (* 4660)	7380 (3350)	27.21' (8.29 m)	
5' (1.5 m)						* 26140 (* 11860)	16990 (7710)	* 19260 (* 8740)	11390 (5170)	14130 (6410)	8340 (3780)	* 11060 (* 5020)	7140 (3240)	27.41' (8.36 m)
Ground Level			* 14530 (* 6590)	* 14530 (* 6590)	* 27700 (* 12570)	16360 (7420)	19210 (8710)	11000 (4990)	13910 (6310)	8140 (3690)	12410 (5630)	7290 (3310)	26.71' (8.14 m)	
-5' (-1.5 m)		* 15830 (* 7180)	* 15830 (* 7180)	* 24650 (* 11180)	* 24650 (* 11180)	* 27060 (* 12280)	16210 (7350)	19040 (8640)	10850 (4920)	13870 (6290)	8100 (3670)	13560 (6150)	7930 (3600)	25.03' (7.63 m)
-10' (-3.0 m)		* 26420 (* 11980)	* 26420 (* 11980)	* 33360 (* 15130)	31750 (14400)	* 24290 (* 11020)	16400 (7440)	* 18100 (* 8210)	10960 (4970)		* 15270 (* 6920)	9440 (4280)	22.14' (6.75 m)	
-15' (-4.5 m)				* 24650 (* 11180)	* 24650 (* 11180)	* 18180 (* 8240)	16970 (7700)				* 14630 (* 6640)	13500 (6130)	17.41' (5.31 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	■
Fuel filler pump	●

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	■
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	■
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" (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	■
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	■
Rain shield	●
FOG guard	●
Front window guard	●

Electrical

System voltage – 24 V	■
Alternator – 24 V, 80 A	■
2 x 12 V batteries, 100 AH reserve capacity, 900 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	●
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

Track guards & chains with adjusters	■
Track rollers, upper	2
Track rollers, lower	9
In-shoe motor protection	■
Shoes, triple grouser – 500 mm, rubber shoe (road liner)	●
Shoes, triple grouser – 600 mm	●
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	■

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.

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DEVELON

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