

DEVELON

Log Loader

DX340LL-7



Engine

Make	DEVELON
Model	DL08
Number of cylinders	6
Rated power, gross (hp per SAE J1995)	285.6 hp (213.0 kW) @ 1800 rpm
Rated power, net (hp per SAE J1349)	284.3 hp (212.0 kW) @ 1800 rpm
Max. torque, gross (SAE J1995)	940.4 ft.-lb. (1275.0 Nm) @ 1300 rpm
Displacement	466.2 in. ³ (7.6 L)
Bore and stroke	4.3" x 5.5" (108 mm x 139 mm)
Starter	24 V, 8.0 hp (6.0 kW)
Battery	2 x 12 V, 150 AH
Alternator	24 V, 80 A
Air cleaner	Three-stage

Hydraulics

Main pumps	2 x 76.1 gpm (2 x 288.0 L/min.)
Pilot pump (gear design)	7.1 gpm (27.0 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
Total length of track	16' 7.5" (5068 mm)

Swing Mechanism

Swing speed	0 - 9.1 rpm
Swing torque	109011.7 lbf.-ft. (15071.0 kgf-m)

Drive System

Travel speed (low - high)	1.7 - 3.1 mph (2.8 - 5.0 km/h)
Traction force, max. (drawbar pull)	95638.2 lbf. (43381.0 kgf)
Max. grade (limited by engine lub)	96% (44°)

Environment

Sound level (2000/14/EC)	104 dB(A)
Cabin sound level (ISO 6396)	68 dB(A)

Refill Capacities

Fuel tank	289.8 gal. (1097.0 L)
DEF tank	16.4 gal. (62.0 L)
Cooling system (radiator capacity)	14.2 gal. (53.6 L)
Engine oil (with filter)	10.3 gal. (39.0 L)
Swing drive	1.8 gal. (7.0 L)
Final drive (each side)	1.7 gal. (6.3 L)
Hydraulic system	89.8 gal. (340.0 L)
Hydraulic tank	46.0 gal. (174.0 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 (2) bore x rod diameter x stroke	6.3" x 4.1" x 46.9" (160 mm x 105 mm x 1190 mm)
Arm (1) bore x rod diameter x stroke	7.1" x 4.7" x 56.7" (180 mm x 120 mm x 1440 mm)
Heel (1) bore x rod diameter x stroke	5.9" x 3.9" x 39.8" (150 mm x 100 mm x 1010 mm)

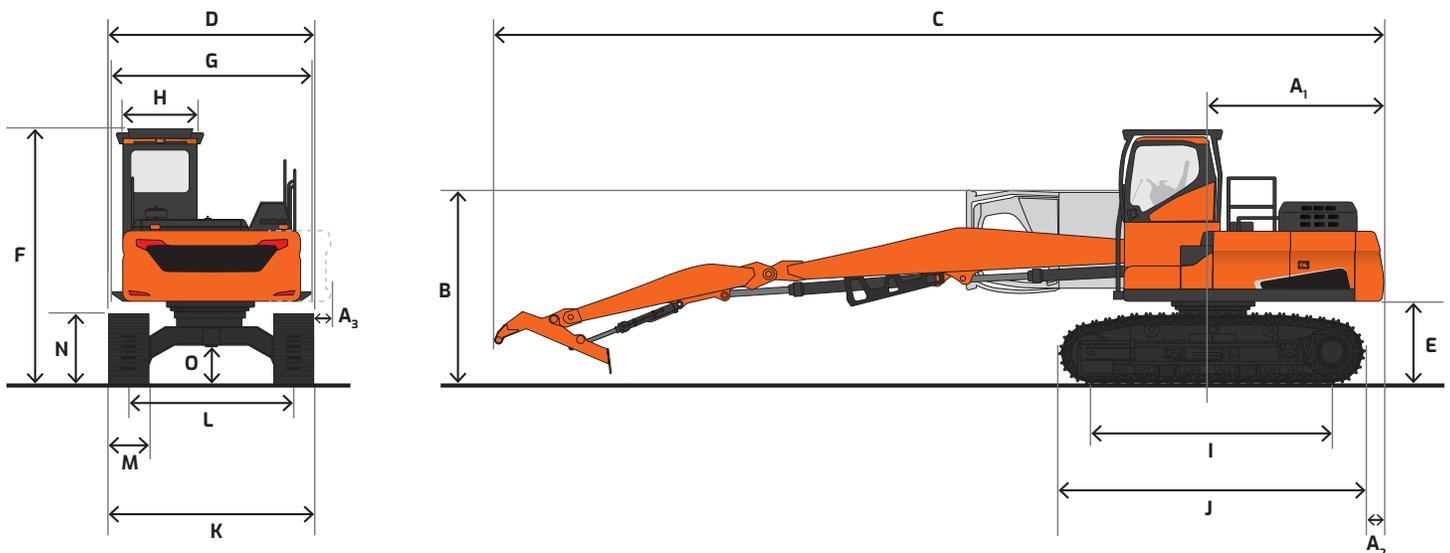
The piston rods and cylinder bodies are made of high-strength steel. A shock-absorbing mechanism is fitted in all cylinders to ensure shock-free operation and extended piston life.

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 log loaders equipped with standard tracks and the standard front as listed. Pictures of DEVELON log loaders 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

		Side-Entry Forestry Cab 27.6" (700 mm) DG Shoe (US20)	Rear-Entry Forestry Cab 27.6" (700 mm) DG Shoe (US25)
Boom length		22' 3.7" (6800 mm)	
Arm length		14' 3.3" (4350 mm)	
Heel		3' 3.0" (990 mm)	
Track type		High & wide fixed	
Tail swing radius	A ₁	11' 10.8" (3628 mm)	
Tail swing overhang (rear)	A ₂	3' 7.1" (1094 mm)	
Tail swing overhang (side)	A ₃	6' 0.0" (1828 mm)	
Shipping height	B	12' 3.4" (3744 mm)	12' 7.7" (3852 mm)
Shipping length	C	51' 10.6" (15813 mm)	
Shipping width	D	12' 1.8" (3703 mm)	
Counterweight clearance*	E	4' 7.7" (1414 mm)	
Cabin height	F	16' 3.0" (4954 mm)	16' 4.4" (4989 mm)
Cab riser		3' 11.2" (1200 mm)	
Upper structure width	G	11' 8.8" (3576 mm)	
Cabin width	H	4' 2.4" (1280 mm)	
Tumbler distance	I	13' 4.6" (4080 mm)	
Overall track length	J	16' 7.5" (5068 mm)	
Undercarriage width	K	11' 9.7" (3600 mm)	
Track gauge width	L	9' 6.2" (2900 mm)	
Track shoe width	M	27.6" (700 mm)	
Track height*	N	3' 10.8" (1189 mm)	
Car body clearance*	O	2' 3.9" (708.8 mm)	
Cabin tilting angle		90°	

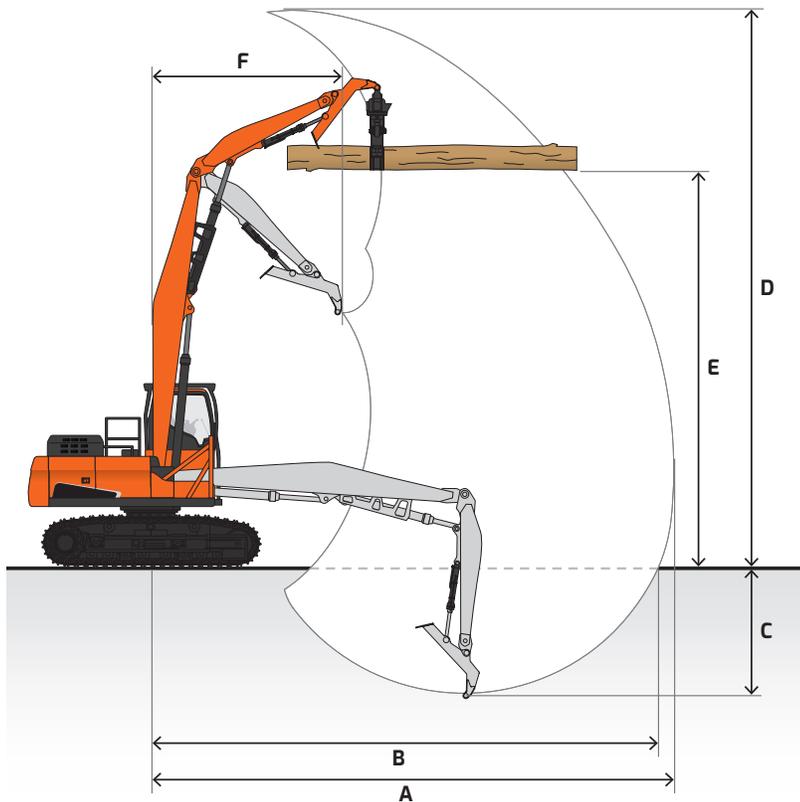
*Without shoe grouser



Working Range

	Side-Entry Forestry Cab 27.6" (700 mm) DG Shoe (US20)	Rear-Entry Forestry Cab 27.6" (700 mm) DG Shoe (US25)
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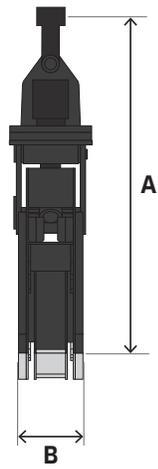
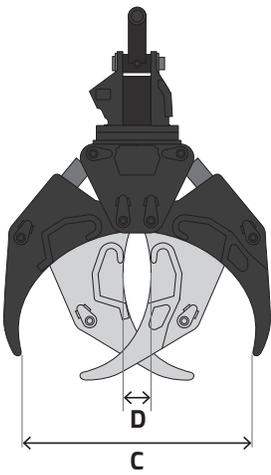
Boom length	22' 3.7" (6800 mm)	
Arm length	14' 3.3" (4350 mm)	
Counterweight	15212 lb. (6900 kg)	
Track type	High & wide fixed	
Max. working reach	A	41' 2.2" (12553 mm)
Max. working reach (ground)	B	40' 5.2" (12324 mm)
Max. working depth	C	13' 5.8" (4109 mm)
Max. working height	D	46' 4.5" (14135 mm)
Max. level log height	E	32' 11.5" (10046 mm)
Min. swing radius	F	14' 6.1" (4421 mm)
Operating weight	95548 lb. (43340 kg)	95504 lb. (43320 kg)
Ground pressure	10.1 psi (0.71 kg/cm ²)	



Grapple

TC60

Weight	2550 lb. (1157 kg)	
Height	A	6' 6" (1981 mm)
Width	B	1' 2" (356 mm)
Open	C	5' 1" (1549 mm)
Closed	D	7.0" (178 mm)
Rotation	15 rpm @ 4-6 gal./min. (15-23 L/min.)	



Lifting Capacity

 Rating over front  Rating over side or 360°

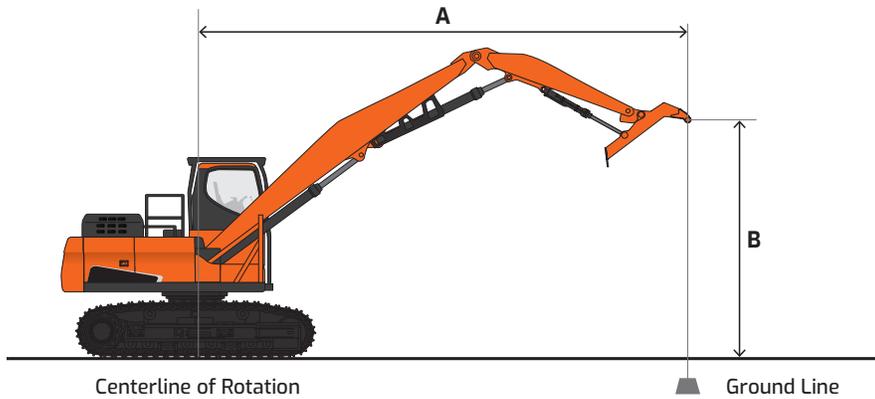
DX340LL-7 Log Loader US20 | Side-Entry Forestry Cab

Boom: 22' 3.7" (6800 mm) | Arm: 14' 3.3" (4350 mm) | Counterweight: 15212 lb. (6900 kg) | 27.6" (700 mm) DG Shoes | Heel: None | Unit: lb. (kg)

A (ft. or m) B (ft. or m)	15' (4.5 m)		20' (6.0 m)		25' (7.5 m)		30' (9.0 m)		35' (10.5 m)		Max. Reach			
													A	
40' (12.0 m)											* 29320 (* 13300)	* 29320 (* 13300)	179' (5.46 m)	
35' (10.5 m)			* 28170 (* 12780)	* 28170 (* 12780)	* 23680 (* 10740)	21740 (9860)					* 22680 (* 10290)	21400 (9710)	24.81' (7.56 m)	
30' (9.0 m)					* 24750 (* 11230)	22380 (10150)					* 19880 (* 9020)	16630 (7540)	29.3' (8.93 m)	
25' (7.5 m)			* 27890 (* 12650)	* 27890 (* 12650)	* 24830 (* 11260)	22370 (10150)	* 22540 (* 10220)	16740 (7590)			* 18390 (* 8340)	14190 (6440)	32.47' (9.90 m)	
20' (6.0 m)			* 29790 (* 13510)	* 29790 (* 13510)	* 25730 (* 11670)	22040 (10000)	22680 (10290)	16650 (7550)	17690 (8020)	12940 (5870)	17530 (7950)	12820 (5810)	34.63' (10.55 m)	
15' (4.5 m)			* 32540 (* 14760)	30030 (13620)	* 27070 (* 12280)	21510 (9760)	22400 (10160)	16390 (7430)	17680 (8020)	12940 (5870)	16480 (7480)	12030 (5460)	35.99' (10.97 m)	
10' (3.0 m)			* 35260 (* 15990)	28820 (13070)	* 28370 (* 12870)	20880 (9470)	22050 (10000)	16060 (7280)	17550 (7960)	12810 (5810)	16000 (7260)	11660 (5290)	36.64' (11.17 m)	
5' (1.5 m)			* 36770 (* 16680)	27760 (12590)	28310 (12840)	20300 (9210)	21710 (9850)	15750 (7140)	17410 (7900)	12680 (5750)	15980 (7250)	11640 (5280)	36.61' (11.16 m)	
Ground Level			* 36180 (* 16410)	27070 (12280)	27860 (12640)	19880 (9020)	21470 (9740)	15520 (7040)	17330 (7860)	12610 (5720)	* 14820 (* 6720)	11960 (5430)	35.9' (10.94 m)	
-5' (-1.5 m)			* 24950 (* 11320)	* 24950 (* 11320)	* 33130 (* 15030)	26790 (12150)	* 26190 (* 11880)	19690 (8930)	* 20500 (* 9300)	15430 (7000)		* 16050 (* 7280)	13350 (6060)	33.02' (10.07 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°

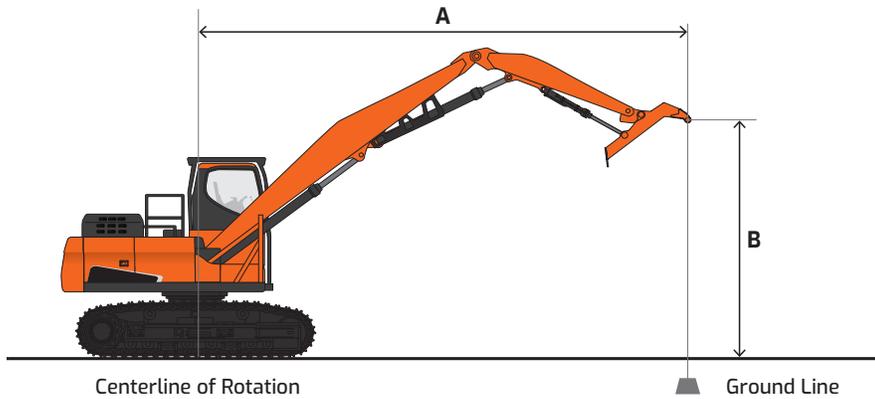
DX340LL-7 Log Loader US25 | Rear-Entry Forestry Cab

Boom: 22' 3.7" (6800 mm) | Arm: 14' 3.3" (4350 mm) | Counterweight: 15212 lb. (6900 kg) | 27.6" (700 mm) DG Shoes | Heel: None | Unit: lb. (kg)

A (ft. or m) B (ft. or m)	15' (4.5 m)		20' (6.0 m)		25' (7.5 m)		30' (9.0 m)		35' (10.5 m)		Max. Reach			
													A	
40' (12.0 m)											* 29320 (* 13300)	* 29320 (* 13300)	179' (5.46 m)	
35' (10.5 m)			* 28170 (* 12780)	* 28170 (* 12780)	* 23680 (* 10740)	21740 (9860)					* 22680 (* 10290)	21400 (9710)	24.81' (7.56 m)	
30' (9.0 m)					* 24750 (* 11230)	22380 (10150)					* 19880 (* 9020)	16630 (7540)	29.3' (8.93 m)	
25' (7.5 m)			* 27890 (* 12650)	* 27890 (* 12650)	* 24830 (* 11260)	22370 (10150)	* 22540 (* 10220)	16740 (7590)			* 18390 (* 8340)	14190 (6440)	32.47' (9.90 m)	
20' (6.0 m)			* 29790 (* 13510)	* 29790 (* 13510)	* 25730 (* 11670)	22040 (10000)	22680 (10290)	16650 (7550)	17690 (8020)	12940 (5870)	17530 (7950)	12820 (5810)	34.63' (10.55 m)	
15' (4.5 m)			* 32540 (* 14760)	30030 (13620)	* 27070 (* 12280)	21510 (9760)	22400 (10160)	16390 (7430)	17680 (8020)	12940 (5870)	16480 (7480)	12030 (5460)	35.99' (10.97 m)	
10' (3.0 m)			* 35260 (* 15990)	28820 (13070)	* 28370 (* 12870)	20880 (9470)	22050 (10000)	16060 (7280)	17550 (7960)	12810 (5810)	16000 (7260)	11660 (5290)	36.64' (11.17 m)	
5' (1.5 m)			* 36770 (* 16680)	27760 (12590)	28310 (12840)	20300 (9210)	21710 (9850)	15750 (7140)	17410 (7900)	12680 (5750)	15980 (7250)	11640 (5280)	36.61' (11.16 m)	
Ground Level			* 36180 (* 16410)	27070 (12280)	27860 (12640)	19880 (9020)	21470 (9740)	15520 (7040)	17330 (7860)	12610 (5720)	* 14820 (* 6720)	11960 (5430)	35.9' (10.94 m)	
-5' (-1.5 m)			* 24950 (* 11320)	* 24950 (* 11320)	* 33130 (* 15030)	26790 (12150)	* 26190 (* 11880)	19690 (8930)	* 20500 (* 9300)	15430 (7000)		* 16050 (* 7280)	13350 (6060)	33.02' (10.07 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, variable geometry (VGT)	■
Cooled exhaust gas recirculation (CEGR)	■
Diesel oxidation catalyst (DOC)	■
Exhaust brake	■
Selective catalytic reduction (SCR)	■
Diesel exhaust fluid (DEF)	■
Fuel filter with water separator	■
Coolant expansion tank	■
Dual element dry-type air filter with evacuator	■
Pre-cleaner	■
Electronic engine control (ECU)	■
Auto idle	■
Auto shutdown (time-adjustable)	■
Overheat & low oil pressure engine protection	■
Block heater (110 V)	■
Water separator with heater	■

Hydraulic

Mechatronics Design	■
Variable axial piston main pump (tandem)	■
Cross-sensing pump control	■
Pilot-operated control valves	■
Gear pilot pump	■
D-ECOPOWER™ system	■
Variable-speed hydraulic cooling fan	■
Axial piston swing motor	■
Spring-applied hydraulic release brake	■
Axial piston travel motor (high/low, auto)	■
Auxiliary hydraulics, two-way piping	■
Auxiliary hydraulics, rotate 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)	■
Jog dial display control	■
Wiper control panel	■
Audio control panel	■

Cabin

Steel, all-weather & sound-suppressed	■
Cab riser	■
Forestry cab, side entry	■
Forestry cab, rear entry	●
Viscous mount with spring reinforcement	■
Front window with wiper/washer	■
Skylight top hatch with sun screen	■
Front window with sun screen	■
Adjustable sliding side door window	■
Defrost, front window	■
Lockable doors	■
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	■
Digital Bluetooth® & MP3 radio with cell phone integration	■
Speakers (2)	■
Antenna, roof-mounted	■
Hot/cold beverage compartment	■
Power sockets, 12 V & 24 V	■
Cup holder	■
Interior light	■

Electrical

System voltage – 24 V	■
Alternator – 24 V, 80 A	■
2 x 12 V batteries, 150 AH reserve capacity	■
Blade-type fuse panel	■
Main circuit breaker	■
Lights, work (LED): machine (8), boom (2)	■
Hour meter	■
Engine restart prevention system	■
Rearview camera	■
Side view camera	■
Microphone & speaker	■
Laptop service port	■
Self-diagnostics system	■
MY DEVELON (telematics)	■

Display Monitor & Warnings

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	■
Travel alarm	■
Buzzer	■
- Engine oil pressure	■
- Coolant temperature	■

Undercarriage

High-walker, high & wide fixed width	■
Track guards & chains with adjusters	■
Track rollers, upper	2
Track rollers, lower	9
In-shoe motor protection	■
Shoes, single grouser – 700 mm	●
Shoes, double grouser – 700 mm	■
Link, HD chain	■
Track guides, HD full-length	■

Main Frame

HD mainframe reinforcement	■
HD integrated catwalks	■
HD guarding, underbody plating	■
HD guarding, final drive motors	■
HD guarding, side doors – pump & radiator protection	■

Other

Centralized lubrication	■
- Boom	■
- Swing	■
Reversing fan	■
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)	■

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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DX340LL-7 Log Loader Spec Sheet
Printed in the U.S.A.
26908_001_D022526

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