

DEVELON

Road Builder

DX300RB-7



Engine

Make	DEVELON
Model	DL08P
Number of cylinders	6
Rated power, gross (hp per SAE J1995)	270.9 hp (202.0 kW) @ 1800 rpm
Rated power, net (hp per SAE J1349)	266.6 hp (198.8 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	4195.9 psi (295.0 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)	48
Total length of track	16' 3.5" (4965 mm)

Swing Mechanism

Swing speed	0 – 9.9 rpm
Swing torque	87787.1 lbf.-ft. (12137.0 kgf-m)

Drive System

Travel speed [low – high]	1.9 – 3.1 mph (3.1 – 5.0 km/h)
Traction force, max. (drawbar pull)	83555.2 lbf. (37900.0 kgf)
Max. grade (limited by engine lub)	70% (35°)

Environment

Sound level (2000/14/EC)	104 dB(A)
Cabin sound level (ISO 6396)	69 dB(A)

Refill Capacities

Fuel tank	309.1 gal. (1170.0 L)
DEF tank	16.4 gal. (62.0 L)
Cooling system (radiator capacity)	13.8 gal. (52.1 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	5.5" x 3.7" x 56.7" (140 mm x 95 mm x 1440 mm)
Arm (1) bore x rod diameter x stroke	5.9" x 4.1" x 64.0" (150 mm x 105 mm x 1625 mm)
Bucket (1) bore x rod diameter x stroke	5.3" x 3.5" x 45.3" (135 mm x 90 mm x 1150 mm)

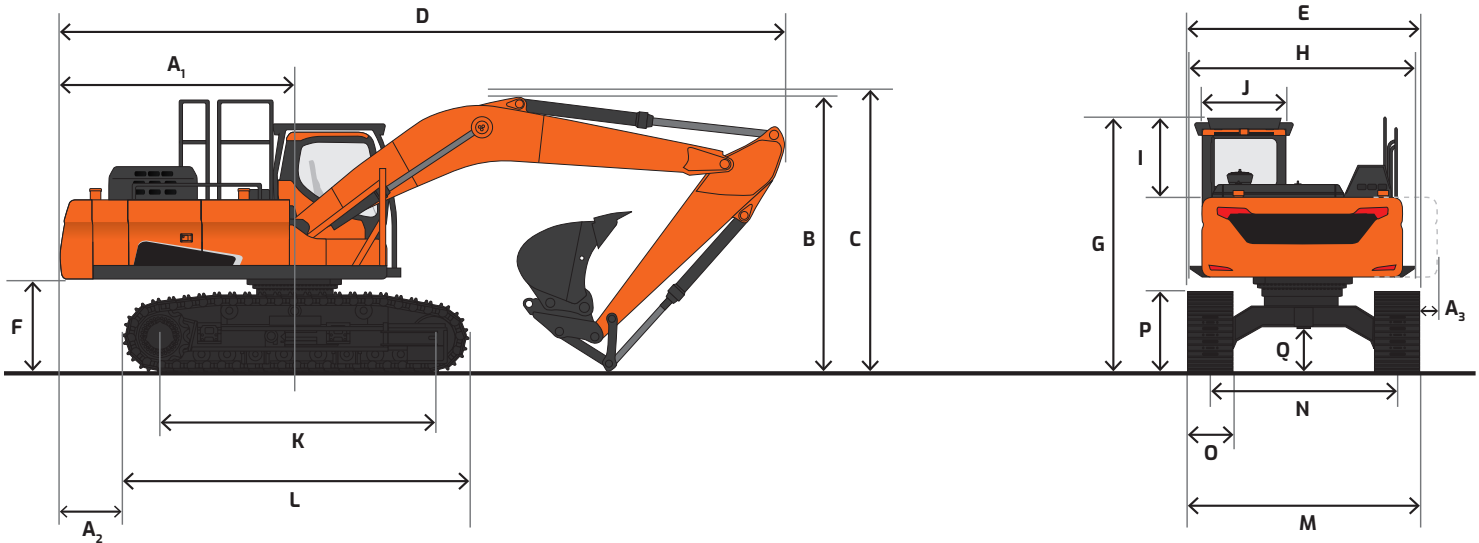
The piston rods and cylinder bodies are made of high-strength steel. A shock-absorbing mechanism is fitted in all cylinders to ensure shock-free operation and extended piston life.

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 road builders equipped with standard tracks and the standard front as listed. Pictures of DEVELON road builders 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 Cab 27.6" (700 mm) DG Shoe (US30)	Forestry Cab 27.6" (700 mm) DG Shoe (US35)
Boom length		20' 5.9" (6245 mm)			
Arm length		10' 2.0" (3100 mm)			
Bucket size (SAE)		2.09 yd ³ (1.60 m ³)			
Track type		High & wide fixed			
Tail swing radius	A ₁	11' 8.2" (3560 mm)			
Tail swing overhang (rear)	A ₂	3' 6.4" (1078 mm)			
Tail swing overhang (side)	A ₃	5' 9.3" (1760 mm)			
Shipping height (boom)	B	11' 8.6" (3571 mm)	12' 0.7" (3675 mm)		
Shipping length (hose)	C	12' 1.3" (3690 mm)			
Shipping length	D	35' 11.5" (10960 mm)			
Shipping width	E	11' 9.7" (3600 mm)			
Counterweight clearance*	F	4' 7.9" (1420 mm)			
Cabin height	G	11' 0.5" (3365 mm)	12' 0.7" (3675 mm)		
Upper structure width	H	11' 8.7" (3575 mm)			
Cabin height above house	I	2' 9.3" (845 mm)	3' 9.5" (1155 mm)		
Cabin width	J	3' 3.8" (1010 mm)	3' 8.9" (1140 mm)		
Tumbler distance	K	13' 1.9" (4010 mm)			
Overall track length	L	16' 3.5" (4965 mm)			
Undercarriage width	M	11' 9.7" (3600 mm)			
Track gauge width	N	9' 6.2" (2900 mm)			
Track shoe width	O	27.6" (700 mm)			
Track height*	P	3' 10.9" (1190 mm)			
Car body clearance*	Q	2' 5.9" (760 mm)			

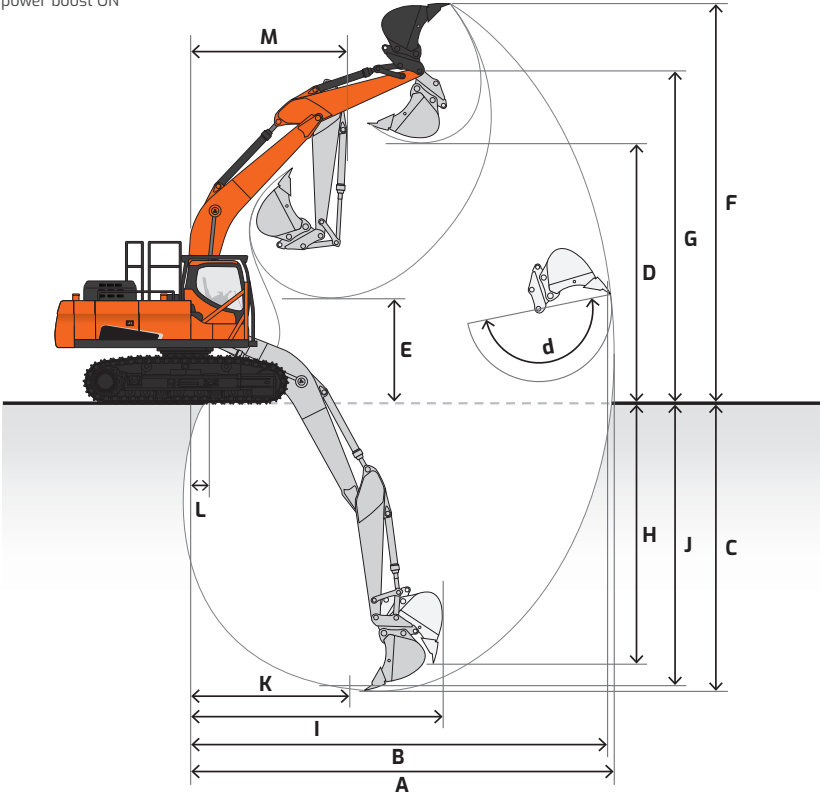
*Without shoe grouser



Working Range

		Standard Cab 27.6" (700 mm) DG Shoe (US30)	Forestry Cab 27.6" (700 mm) DG Shoe (US35)
Boom length		20' 5.9" (6245 mm)	
Arm length		10' 2.0" (3100 mm)	
Bucket size (SAE)		2.09 yd³ (1.60 m³)	
Counterweight		11685 lb. (5300 kg)	
Track type		High & wide fixed	
Max. digging reach	A	35' 0.1" (10670 mm)	
Max. digging reach (ground)	B	34' 2.6" (10430 mm)	
Max. digging depth	C	23' 0.2" (7015 mm)	
Max. loading height	D	24' 3.3" (7400 mm)	
Min. loading height	E	9' 9.7" (2990 mm)	
Max. digging height	F	33' 11.1" (10340 mm)	
Max. bucket pin height	G	29' 5.1" (8970 mm)	
Max. vertical wall depth	H	16' 5.4" (5015 mm)	
Max. radius vertical	I	25' 0.2" (7625 mm)	
Max. depth to 8' line	J	22' 4.1" (6810 mm)	
Min. radius to 8' line	K	9' 5.8" (2890 mm)	
Min. digging reach	L	1' 8.3" (515 mm)	
Min. swing radius	M	13' 10.5" (4230 mm)	
Bucket angle (DEG)	d	175°	
Digging force, bucket*	ISO	42108.3 lbf. (19100 kgf)	
Digging force, arm*		31085.2 lbf. (14100 kgf)	
Operating weight		82894 lb. (37600 kg)	84437 lb. (38300 kg)
Ground pressure		8.8 psi (0.62 kg/cm²)	9.0 psi (0.63 kg/cm²)

*With power boost ON



Lifting Capacity

 Rating over front  Rating over side or 360°

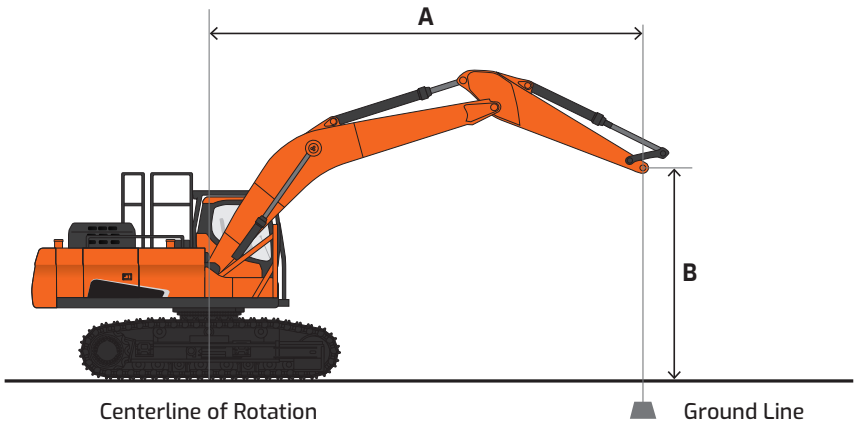
DX300RB-7 Road Builder US30 | ROPS Cab

Boom: 20' 5.9" (6245 mm) | Arm: 10' 2.0" (3100 mm) | Counterweight: 11685 lb. (5300 kg) | 27.6" (700 mm) DG Shoes | Bucket: None | Unit: lb. (kg)

A B (ft. or m)	10' (3.0 m)		15' (4.5 m)		20' (6.0 m)		25' (7.5 m)		Max. Reach		A
											
30' (9.0 m)									* 12970 (* 5880)	* 12970 (* 5880)	19.67' (6.00 m)
25' (7.5 m)					* 18090 (* 8210)	* 18090 (* 8210)			* 11750 (* 5330)	* 11750 (* 5330)	24.27' (7.40 m)
20' (6.0 m)			* 20940 (* 9500)	* 20940 (* 9500)	* 19600 (* 8890)	* 19600 (* 8890)	* 17170 (* 7790)	* 17170 (* 7790)	* 11360 (* 5150)	* 11360 (* 5150)	27.21' (8.29 m)
15' (4.5 m)			* 27370 (* 12410)	* 27370 (* 12410)	* 21710 (* 9850)	* 21710 (* 9850)	* 18650 (* 8460)	17530 (7950)	* 11450 (* 5190)	* 11450 (* 5190)	28.99' (8.84 m)
10' (3.0 m)			* 32610 (* 14790)	* 32610 (* 14790)	* 24140 (* 10950)	23490 (10660)	* 19770 (* 8970)	17020 (7720)	* 11940 (* 5420)	* 11940 (* 5420)	29.83' (9.09 m)
5' (1.5 m)			* 35660 (* 16170)	34180 (15500)	* 25940 (* 11760)	22600 (10250)	* 20620 (* 9350)	16540 (7500)	* 12900 (* 5850)	* 12900 (* 5850)	29.80' (9.08 m)
Ground Level			* 35600 (* 16150)	33450 (15170)	* 26390 (* 11970)	22040 (10000)	* 20680 (* 9380)	16220 (7360)	* 14540 (* 6600)	13320 (6040)	28.92' (8.82 m)
-5' (-1.5 m)	* 30480 (* 13830)	* 30480 (* 13830)	* 33080 (* 15010)	* 33080 (* 15010)	* 25110 (* 11390)	21850 (9910)	* 19340 (* 8770)	16120 (7310)	* 16970 (* 7700)	14540 (6590)	27.07' (8.25 m)
-10' (-3.0 m)	* 35920 (* 16290)	* 35920 (* 16290)	* 28070 (* 12730)	* 28070 (* 12730)	* 21490 (* 9750)	* 21490 (* 9750)			* 16210 (* 7350)	* 16210 (* 7350)	24.07' (7.34 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°

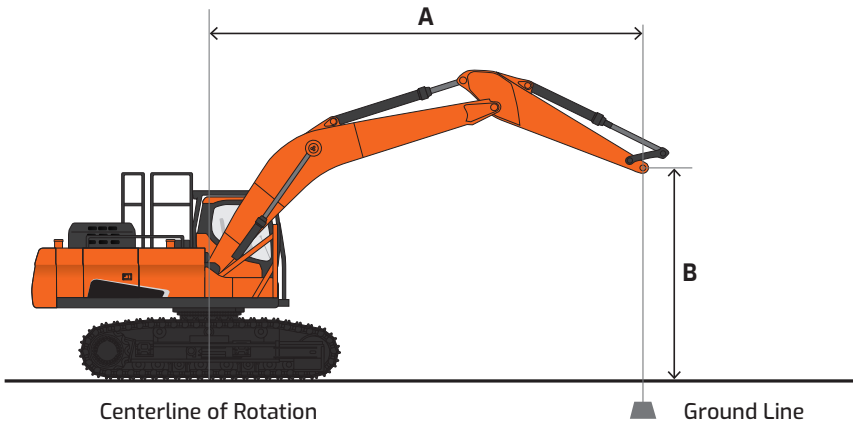
DX300RB-7 Road Builder US35 | Forestry Cab

Boom: 20' 5.9" (6245 mm) | Arm: 10' 2.0" (3100 mm) | Counterweight: 11685 lb. (5300 kg) | 27.6" (700 mm) DG Shoes | Bucket: None | Unit: lb. (kg)

A B (ft. or m)	10' (3.0 m)		15' (4.5 m)		20' (6.0 m)		25' (7.5 m)		Max. Reach		
											A
30' (9.0 m)									* 12970 (* 5880)	* 12970 (* 5880)	19.67 (6.00 m)
25' (7.5 m)					* 18090 (* 8210)	* 18090 (* 8210)			* 11750 (* 5330)	* 11750 (* 5330)	24.27 (7.40 m)
20' (6.0 m)			* 20940 (* 9500)	* 20940 (* 9500)	* 19600 (* 8890)	* 19600 (* 8890)	* 17170 (* 7790)	* 17170 (* 7790)	* 11360 (* 5150)	* 11360 (* 5150)	27.21 (8.29 m)
15' (4.5 m)			* 27370 (* 12410)	* 27370 (* 12410)	* 21710 (* 9850)	* 21710 (* 9850)	* 18650 (* 8460)	17660 (8010)	* 11450 (* 5190)	* 11450 (* 5190)	28.99 (8.84 m)
10' (3.0 m)			* 32610 (* 14790)	* 32610 (* 14790)	* 24140 (* 10950)	23670 (10740)	* 19770 (* 8970)	17150 (7780)	* 11940 (* 5420)	* 11940 (* 5420)	29.83 (9.09 m)
5' (1.5 m)			* 35660 (* 16170)	34440 (15620)	* 25940 (* 11760)	22770 (10330)	* 20620 (* 9350)	16670 (7560)	* 12900 (* 5850)	* 12900 (* 5850)	29.80 (9.08 m)
Ground Level			* 35600 (* 16150)	33710 (15290)	* 26390 (* 11970)	22210 (10080)	* 20680 (* 9380)	16350 (7410)	* 14540 (* 6600)	13430 (6090)	28.92 (8.82 m)
-5' (-1.5 m)	* 30480 (* 13830)	* 30480 (* 13830)	* 33080 (* 15010)	* 33080 (* 15010)	* 25110 (* 11390)	22020 (9990)	* 19340 (* 8770)	16250 (7370)	* 16970 (* 7700)	14660 (6650)	27.07 (8.25 m)
-10' (-3.0 m)	* 35920 (* 16290)	* 35920 (* 16290)	* 28070 (* 12730)	* 28070 (* 12730)	* 21490 (* 9750)	* 21490 (* 9750)			* 16210 (* 7350)	* 16210 (* 7350)	24.07 (7.34 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	■
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	■

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, one- & two-way piping	■
Auxiliary hydraulics, rotate piping	■
Adjustable auxiliary flow & pressure, 10 presets	■
Boom & arm lock valves	●
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 key	
- 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	■
ROPS (ISO 12117-2:2008)	■
Forestry cab, side entry	●
Cab guard – front, top & rear	■
Viscous mount with spring reinforcement	■
Front window with wiper/washer	■
Tinted safety glass	■
Skylight top hatch with sun screen	■
Front window with sun screen	■
Wiper, lower window	■
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	■
Around 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, 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

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DX300RB-7 Road Builder Spec Sheet
Printed in the U.S.A.
25901_002_D073025

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