

DEVELON

Material Handler

DX300MH-5



Engine

Make	DEVELON
Model	DL08P
Number of cylinders	6
Rated power, gross (hp per SAE J1995)	270 hp (201.3 kW) @ 1800 rpm
Rated power, net (hp per SAE J1349)	267 hp (199.1 kW) @ 1800 rpm
Max. torque, net (SAE J1995)	940 lbf.ft. (1275 kgf.m) @ 1300 rpm
Displacement	466 in. ³ (7.6 L)
Bore and stroke	4.3 in. x 5.5 in. (108 mm x 139 mm)
Starter	24 V, 8.0 hp (6.0 kW)
Battery (qty. 2)	2 x 12 V, 200 AH
Alternator	24 V, 100 amp
Air cleaner	Double elements

Hydraulics

Main pumps	2 x 65.51 gpm (2 x 248 L/min.)
Pilot pump (gear design)	71 gpm (27 L/min.)

Maximum System Pressure

Boom/arm/bucket (normal)	4978 psi (350 kg/cm ²)
Boom/arm/bucket (power boost)	5263 psi (370 kg/cm ²)
Travel (normal)	4978 psi (350 kg/cm ²)
Swing (normal)	4978 psi (350 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' 2" (4940 mm)

Swing Mechanism

Swing speed	0 – 9.9 rpm
Swing torque	87787 lbf.ft. (12137 kgf.m)

Environment

Sound level (2000/14/EC)	103 dB(A)
Cabin sound level (ISO 6396)	71 dB(A)

Drive System

Travel speed (low – high)	1.8 – 3.2 mph (3.0 – 5.3 km/h)
Traction force (drawbar pull)	83258 lbf. (37765 kgf)
Max. grade (limited by engine lubrication)	70% (35°)

Refill Capacities

Fuel tank	132.09 gal. (500 L)
DEF tank	18.5 gal. (70 L)
Cooling system	12.94 gal. (49 L)
Engine oil	9.51 gal. (36 L)
Swing reduction unit	1.8 gal. (7 L)
Final drive (each side)	1.8 gal. (7 L)
Front axle	–
Front hub (2x)	–
Rear axle	–
Rear hub (2x)	–
Transmission	–
Hydraulic system	81.89 gal. (310 L)
Hydraulic tank	43.59 gal. (165 L)

Hydraulic Cylinders

Boom (2) bore x rod diameter x stroke	5.5 in. x 3.7 in. x 571 in. (140 mm x 95 mm x 1450 mm)
Arm (1) bore x rod diameter x stroke	5.9 in. x 4.1 in. x 69.1 in. (150 mm x 105 mm x 1755 mm)
Steering (1) bore x rod diameter x stroke	–
Leveling (1) bore x rod diameter x stroke	–
Dozer (2) bore x rod diameter x stroke	–
Outrigger, rear (2) bore x rod diameter x stroke	–
Cabin tilting (1) bore x rod diameter x stroke	4.5 in. x 2.0 in. x 33.7 in. (115 mm x 50 mm x 855 mm)
Cabin elevating (2) bore x rod diameter x stroke	–

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 material handlers equipped with standard tracks and the standard front as listed. Pictures of DEVELON material handlers may show other than standard equipment. All dimensions are shown in imperial. Respective metric dimensions are enclosed by parentheses. DEVELON equipment is manufactured with a Quality Management System that is in compliance with ISO 9001:2008.

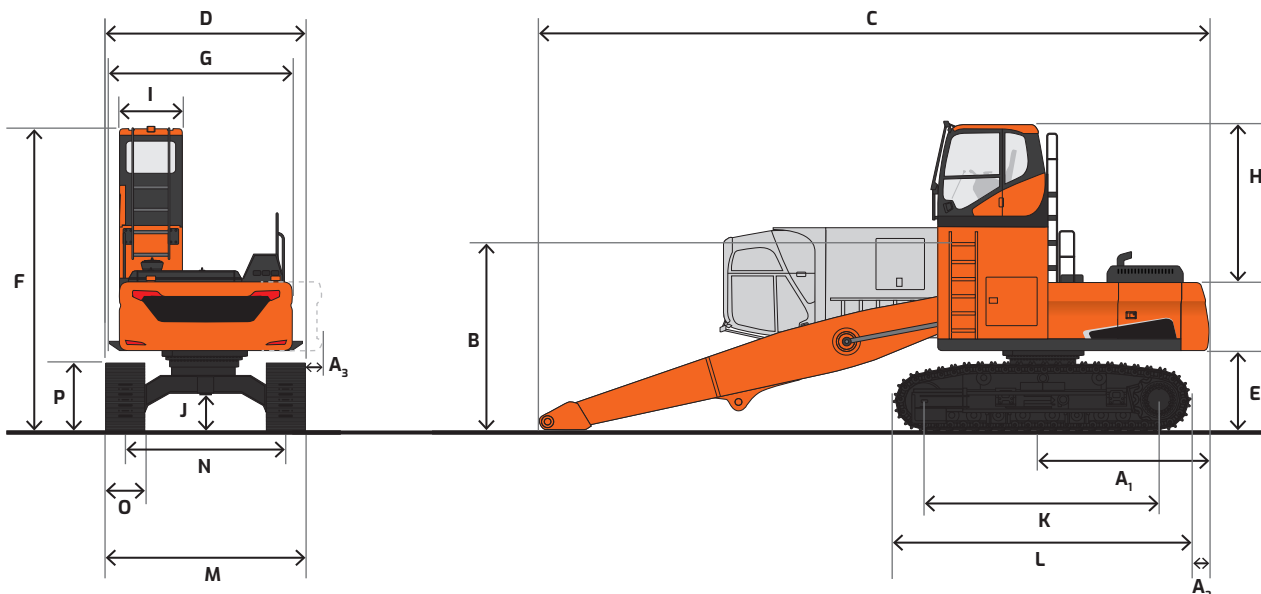
Dimensions

DX300MH-5 (US90)

Boom length		25' 7" (7800 mm)
Arm length		17' 8" (5400 mm)
Cab type		Fixed Cab Riser 5' 11" (1800 mm)
Tail swing radius	A ₁	10' 6" (3200 mm)
Tail swing overhang (rear)	A ₂	2' 6" (760 mm)
Tail swing overhang (side), outrigger width – ground	A ₃	4' 11" (1500 mm)
Tail swing overhang (front)*		2' 6" (760 mm)
Shipping height**	B	11' 5" (3480 mm)
Shipping length	C	36' 1" (11002 mm)
Shipping width	D	11' 2" (3400 mm)
Counterweight clearance	E	3' 4" (1020 mm)
Cabin height	F	15' 11" (4860 mm)
Cab riser*		5' 11" (1800 mm)
Upper structure width	G	9' 9" (2960 mm)
Cabin height above house	H	7' 8" (2345 mm)
Cabin width	I	3' 4" (1010 mm)
Car body clearance	J	1' 8" (505 mm)
Tumbler distance	K	13' 3" (4040 mm)
Overall track length	L	16' 2" (4940 mm)
Undercarriage width	M	11' 2" (3400 mm)
Track gauge	N	8' 6" (2600 mm)
Track shoe width	O	32" (800 mm)
Track height	P	3' 6" (1058 mm)

*Not shown on diagram

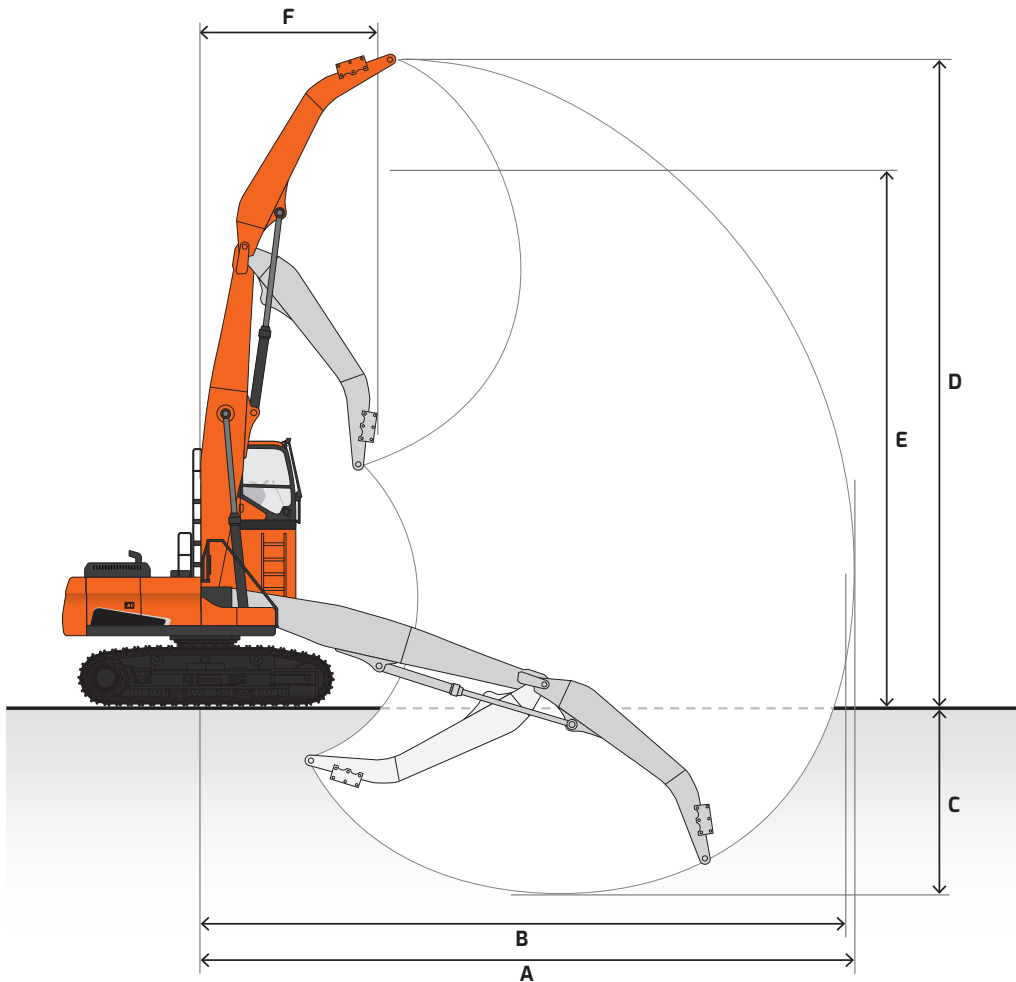
**With fixed cabin in transport position or elevating cabin lowered



Working Range

DX300MH-5 (US90)

Boom length	25' 7" (7800 mm)	
Arm length	17' 9" (5400 mm)	
Cab type	Fixed Cab Riser 5' 11" (1800 mm)	
Max. working reach	A	42' 8" (13000 mm)
Max. working reach (ground)	B	42' 0" (12800 mm)
Max. working depth	C	21' 8" (6600 mm)
Max. working height	D	46' 3" (14100 mm)
Max. loading height	E	37' 5" (11400 mm)
Min. swing radius	F	9' 7" (2915 mm)
Counterweight	16094 lb. (7300 kg)	
Operating weight	79366 lb. (36000 kg)	

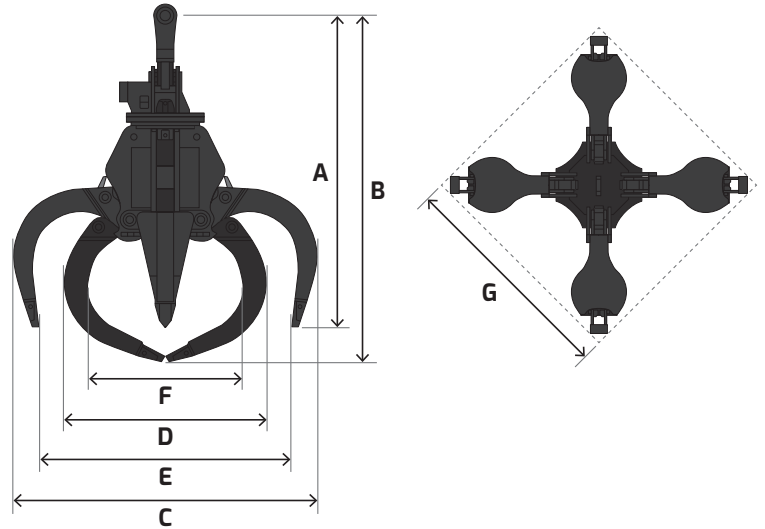


Grapple

DXG4100

Capacity	1.04 yd ³ (0.8 m ³)		
Weight	3638 lb. (1650 kg)		
Height	open	A	8' 3" (2517 mm)
	closed	B	9' 2" (2800 mm)
Width	open	C	8' 3" (2517 mm)
	closed	D	5' 5" (1661 mm)
Clearance	open	E	6' 11" (2112 mm)
	closed	F	4' 2" (1269 mm)
Width (square)	G	6' 2" (1882 mm)	
Underslung mount*	2.6" (65 mm)		
Rotation	12 rpm @ 7.1 gpm (27 L/min.)		

*Not shown on diagram



Magnet

40" Magnet*

58" Magnet

Diameter	40" (1016 mm)	58" (1473 mm)
Lift capacity (HM1)	1250 lb. (567 kg)	3025 lb. (1361 kg)
Lift capacity (HM2)	775 lb. (352 kg)	1975 lb. (889 kg)
Lift capacity (turnings)	400 lb. (181 kg)	800 lb. (360 kg)
Duty cycle	75%	
Amps (cold)	32 A	65 A
Voltage, DC	230 V	
Slings type	Chain	

*For underslinging

Lifting Capacity

Rating over front Rating over side or 360°

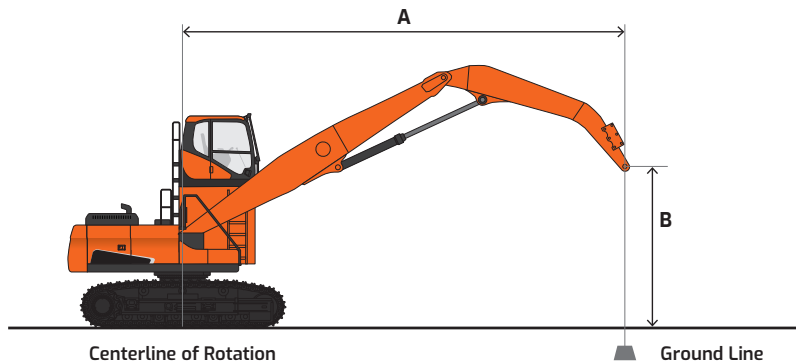
DX300MH-5 US90

Boom: 18' 4" (5600 mm) | Arm: 9' 0" (2750 mm) | Counterweight: 8818 lb. (4000 kg) | Track Shoes: 32" (800 mm) | 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)		35' (10.5 m)		40' (12.0 m)		Max. Reach		
																	A
45' (13.5 m)															* 19010 (* 8240)	* 19010 (* 8240)	17' 10" (5.88 m)
40' (12.0 m)							* 15980 (* 7180)	15910 (7180)							* 15210 (* 6780)	14740 (6380)	26' 1" (8.2 m)
35' (10.5 m)							* 14910 (* 6770)	* 14910 (* 6770)	* 14180 (* 6420)	12020 (5620)					* 13600 (* 6100)	10970 (* 4850)	31' 6" (9.76 m)
30' (9.0 m)							* 14710 (* 6720)	* 14710 (* 6720)	* 13780 (* 6290)	12160 (5660)	* 13110 (* 5960)	9270 (4340)			* 12750 (* 5760)	9040 (4040)	35' 5" (10.9 m)
25' (7.5 m)					* 16650 (* 7650)	* 16650 (* 7650)	* 15120 (* 6930)	* 15120 (* 6930)	* 13910 (* 6370)	12050 (5600)	* 12950 (* 5920)	9310 (4340)			12040 (5420)	7900 (3550)	38' 4" (11.73 m)
20' (6.0 m)					* 18210 (* 8390)	* 18210 (* 8390)	* 16000 (* 7360)	15650 (7260)	* 14380 (* 6600)	11780 (5470)	* 13120 (* 6020)	9180 (4270)	11180 (5210)	7290 (3400)	11020 (4970)	7170 (3240)	40' 4" (12.33 m)
15' (4.5 m)			* 25650 (* 11900)	* 25650 (* 11900)	* 20440 (* 9440)	* 20440 (* 9440)	* 17240 (* 7940)	15000 (6950)	* 15060 (* 6930)	11390 (5280)	* 13430 (* 6170)	8960 (4160)	11090 (5160)	7200 (3350)	10380 (4700)	6710 (3040)	41' 8" (12.72 m)
10' (3.0 m)			* 30620 (* 14190)	29880 (13830)	* 22900 (* 10580)	19640 (9100)	* 18570 (* 8570)	14270 (6610)	* 15790 (* 7270)	10950 (5080)	13380 (6210)	8700 (4040)	10950 (5090)	7070 (3290)	10030 (4500)	6440 (2920)	42' 5" (12.92 m)
5' (1.5 m)			* 15590 (* 6410)	* 15590 (* 6410)	* 24830 (* 11460)	18410 (8520)	* 19650 (* 9070)	13560 (6280)	* 16350 (* 7540)	10520 (4880)	13110 (6080)	8440 (3920)	10810 (5020)	6940 (3220)	9910 (4500)	6340 (2880)	42' 6" (12.95 m)
Ground Level			* 12190 (* 5240)	* 12190 (* 5240)	* 25610 (* 11820)	17520 (8120)	* 20150 (* 9300)	13000 (6030)	15990 (7410)	10170 (4710)	12880 (5970)	8230 (3820)	10700 (4960)	6830 (3170)	10020 (4540)	6390 (2900)	42' 0" (12.8 m)
-5' (-1.5 m)	* 7040 (* 3110)	* 7040 (* 3110)	* 13870 (* 6060)	* 13870 (* 6060)	* 25050 (* 11560)	17050 (7910)	* 19840 (* 9160)	12640 (5860)	15730 (7290)	9940 (4600)	12730 (5900)	8090 (3750)	10660 (4930)	6790 (3140)	* 10060 (* 4570)	6620 (3190)	40' 10" (12.46 m)
-10' (-3.0 m)	* 10780 (* 4780)	* 10780 (* 4780)	* 16890 (* 7420)	* 16890 (* 7420)	* 23150 (* 10700)	16900 (7840)	* 18570 (* 8590)	12500 (5790)	* 15100 (* 7010)	9840 (4560)	* 12150 (* 5680)	8060 (3730)			* 9370 (* 4260)	7060 (3190)	39' 1" (11.93 m)
-15' (-4.5 m)	* 14350 (* 6380)	* 14350 (* 6380)	* 20550 (* 9050)	* 20550 (* 9050)	* 19940 (* 9250)	17020 (7890)	* 16180 (* 7530)	12560 (5810)	* 12980 (* 6070)	9900 (4580)	* 9680 (* 4650)	8180 (3780)			* 8330 (* 3810)	7810 (3250)	36' 6" (11.18 m)
-20' (-6.0 m)					* 15200 (* 7130)	* 15200 (* 7130)	* 12340 (* 5840)	* 12340 (* 5840)	* 9230 (* 4470)	* 9230 (* 4470)							

A Distance from center of rotation
B Height

NOTE: Lifting capacities are in compliance with ISO 10567. Lift capacities apply only to the machine as originally manufactured and normally equipped by the manufacturer. 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)	T4
High-pressure common-rail (HPCR)	■
Turbo, variable geometry (VGT)	■
Cooled exhaust gas recirculation (CEGR)	■
Diesel oxidation catalyst (DOC)	■
Exhaust brake	■
Selective catalyst reduction (SCR)	■
Diesel exhaust fluid (DEF)	■
Fuel filter with water separator	■
Coolant recovery tank	■
Variable-speed hydraulic cooling fan, radiator (electric clutch direct drive)	■
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)	●
Diesel-powered coolant heater	●
Fuel filler pump	●

Hydraulic

Electronic Power Optimizing System (EPOS)	■
Variable axial piston main pump (tandem)	■
Cross-sensing pump control	■
Pilot-operated control valves	■
Gear pilot pump	■
D-ECOPOWER	■
Smart Power Control (SPC)	■
Variable-speed hydraulic cooling fan, oil cooler (hydraulic motor)	■
Axial piston swing motor	■
Spring applied hydraulic release brake, swing	■
Axial piston travel motor (high/low, auto)	■
Auxiliary hydraulics, one- and two-way piping	■
Auxiliary hydraulics, rotate piping	■
Adjustable auxiliary flow & pressure, 10 presets	■
Boom lock valves	■
Arm lock valve	■

Controls

Joystick controls	■
Pattern control change valve (SAE, ISO)	■
Joystick attachment control	■
Switches/buttons (one-way, two-way, power boost)	■
Foot pedal attachment control	■
Control stands - Height adjustable - Sliding (fore/aft)	■
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)	■
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	■
Fixed cab riser, 5' 11" (1800 mm)	■
Hydraulic cab riser, up to 6' 5" (1950 mm)	●
Viscous mount, spring-reinforced	■
Front window with wiper/washer	■
Tinted safety glass	■
Skylight	■
Visor, front window with sun screen	■
Pull-up type top front window	■
Removable lower front window with storage behind seat	■
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	■
3" (76 mm) seat belt	●
Control stands - Height adjustable - Mounted to seat base	■
Storage for operator's manuals	■
Mirrors	■
Fully automatic HVAC with ambient temperature sensor	■
7" multi-function LCD display monitor	■
Cigarette lighter	■
AM/FM stereo with CD player & MP3 port	■
Speakers (2)	■
Antenna, roof-mounted	■
Emergency breakout tool	■
Hot/cold beverage compartment	■
Power socket, 12 V	■
Cup holder	■
Interior light	■
Coat hanger	■
Rain shield	●
Fog guard	●
Front window guard	●
Vandalism covers (windows)	●

Electrical

System voltage – 24 V	■
Alternator – 24 V, 100 amp	■
2 x 12 V batteries, 200 AH reserve capacity	■
Blade-type fuse panel	■
Main circuit breaker	■
Light, work (halogen): machine (2), boom (2)	■
Light, work (halogen): 6 cab front, rear (2)	●
Rotating beacon	●
Hour meter	■
Engine restart prevention system	■
Rearview camera	■
Side view camera (right side)	●
Laptop service port	■
Self-diagnostics system	■
DEVELON Fleet Management	■

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	■
Swing 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 – 800 mm	■
Shoes, triple grouser – 850 mm	●
Shoes	48

Other

Centralized lubrication - Boom - Arm - Swing bearing	■
Handrails & service platforms	■
Skid-resistant steps & service platforms	■
V-shape upper side guards	●
Cat-walk	●
Manuals - Operation & Maintenance - Parts - AEM Safety Manual	■
DEVELON Fleet Management 3-year subscription	■
Vandalism protection - Lockable panels - Lockable fluid fill points - Anti-theft protection (password)	■
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.

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