

DEVELON

Material Handler

DX210WMH-5



Engine

Make	DEVELON
Model	DL06P
Number of cylinders	6
Rated power, gross (hp per SAE J1995)	189 hp (140.9 kW) @ 1900 rpm
Rated power, net (hp per SAE J1349)	186 hp (138.7 kW) @ 1900 rpm
Max. torque, net (SAE J1995)	593 lbf. ft. (804 Nm) @ 1400 rpm
Displacement	359 in. ³ (5.9 L)
Bore and stroke	3.9 in. x 4.9 in. (100 mm x 125 mm)
Starter	24 V, 6.0 hp (4.5 kW)
Battery	2 x 12 V, 150 AH
Alternator	24 V, 80 amp
Air cleaner	Double elements

Hydraulics

Main pumps	2 x 62.3 gpm (2 x 236 L/min.)
Pilot pump (gear design)	7 gpm (27 L/min.)

Maximum System Pressure

Boom/arm/bucket (normal)	4694 psi (330 kg/cm ²)
Boom/arm/bucket (power boost)	4978 psi (350 kg/cm ²)
Travel (normal)	4694 psi (330 kg/cm ²)
Swing (normal)	4694 psi (330 kg/cm ²)

Swing Mechanism

Swing speed	0 – 9.8 rpm
Swing torque	46197 lbf. ft. (6387 kgf·m)

Environment

Sound level (2000/14/EC)	102 dB(A)
Cabin sound level (ISO 6396)	72 dB(A)

Drive System

Travel speed (low – high)	2.5 – 5.6 – 22 mph (4.0 – 9.0 – 35.4 km/h)
Traction force (drawbar pull)	26742 lbf. (12130 kgf)
Max. grade (limited by engine lubrication)	60% (31°)

Refill Capacities

Fuel tank	79.25 gal. (300 L)
DEF tank	8.3 gal. (31.5 L)
Cooling system	6.34 gal. (24 L)
Engine oil	6.6 gal. (24.98 L)
Swing drive	1.3 gal. (5 L)
Final drive (each side)	0.7 gal. (2.5 L)
Front axle	2.91 gal. (11 L)
Front hub (2x)	0.66 gal. (2.5 L)
Rear axle	3.83 gal. (14.5 L)
Rear hub (2x)	0.66 gal. (2.5 L)
Transmission	0.66 gal. (2.5 L)
Hydraulic system	74 gal. (280.12 L)
Hydraulic tank	54.16 gal. (205.05 L)

Hydraulic Cylinders

Boom (2) bore x rod diameter x stroke	4.7 in. x 3.3 in. x 48.2 in. (120 mm x 85 mm x 1225 mm)
Arm (1) bore x rod diameter x stroke	5.5 in. x 3.9 in. x 67.1 in. (140 mm x 100 mm x 1705 mm)
Steering (1) bore x rod diameter x stroke	3.9 in. x 2.0 in. x 3.4 in. (100 mm x 50 mm x 86 mm)
Leveling (1) bore x rod diameter x stroke	3.9 in. x 3.9 in. x 6.0 in. (100 mm x 100 mm x 153 mm)
Dozer (2) bore x rod diameter x stroke	5.1 in. x 3.1 in. x 6.3 in. (130 mm x 80 mm x 160 mm)
Outrigger, rear (2) bore x rod diameter x stroke	5.1 in. x 3.1 in. x 15.4 in. (130 mm x 80 mm x 391 mm)
Cabin tilting (1) bore x rod diameter x stroke	–
Cabin elevating (2) bore x rod diameter x stroke	3.1 in. x 2.0 in. x 25.6 in. (80 mm x 50 mm x 650 mm)

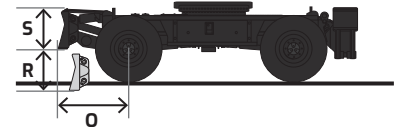
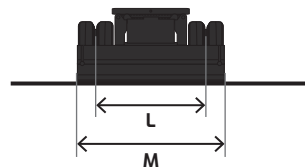
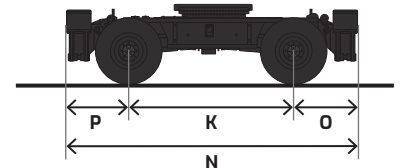
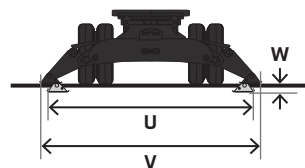
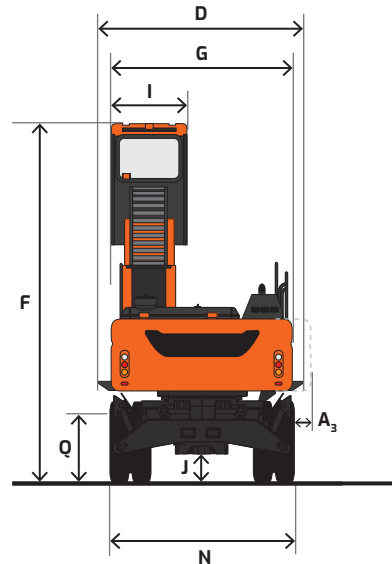
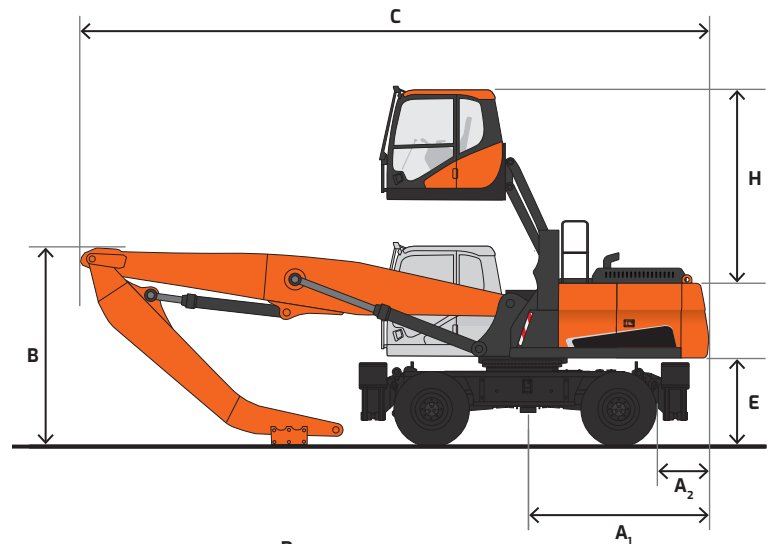
The piston rods and cylinder bodies are made of high-strength steel. A shock-absorbing mechanism is fitted in all cylinders to ensure shock-free operation and extended piston life.

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 material handlers equipped with a standard equipment configuration 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

DX210WMH-5 (US90)

Boom length		21' 4" (6500 mm)	
Arm length		14' 9" (4500 mm)	
Cab type		Hydraulic Cab Riser 0" – 6' 5" (1950 mm)	
Tail swing radius	A ₁	8' 11" (2710 mm)	
Tail swing overhang (rear)	A ₂	10.6" (268 mm)	
Tail swing overhang (side), outrigger width – ground	A ₃	3' 3" (978 mm)	
Tail swing overhang (front)*		6.7" (169 mm)	
Shipping height***	B	11' 9" (3580 mm)	
Shipping length	C	31' 3" (9530 mm)	
Shipping width	D	8' 2" (2500 mm)	
Counterweight clearance	E	4' 2" (1260 mm)	
Cabin height	F	10' 7" (3225 mm)** 18' 1" (5520 mm)	
Cab riser*		Up to 6' 5" (1950 mm)	
Upper structure width	G	8' 4" (2530 mm)	
Cabin height above house	H	3' 0" (923 mm)** 10' 6" (3218 mm)	
Cabin width	I	3' 4" (1010 mm)	
Car body clearance	J	1' 2" (350 mm)	
Wheel base	K	9' 4" (2850 mm)	
Tread width	L	6' 3" (1915 mm)	
Blade width	M	8' 4" (2530 mm)	
Overall undercarriage length	N	16' 8" (5080 mm)	
Outrigger length	rear	O	3' 3" (999 mm)
	front	P	3' 8" (1116 mm)
Blade length (front)	Q	4' 0" (1231 mm)	
Blade clearance (raised)	R	1' 6" (445 mm)	
Blade height	S	2' 1" (630 mm)	
Max. blade depth	T	4.9" (125 mm)	
Outrigger width	ground	U	11' 4" (3465 mm)
	max. depth	V	11' 11" (3640 mm)
Max. outrigger depth	W	3.5" (90 mm)	
Tire size		8 x 10.00R20	



*Not shown on diagram

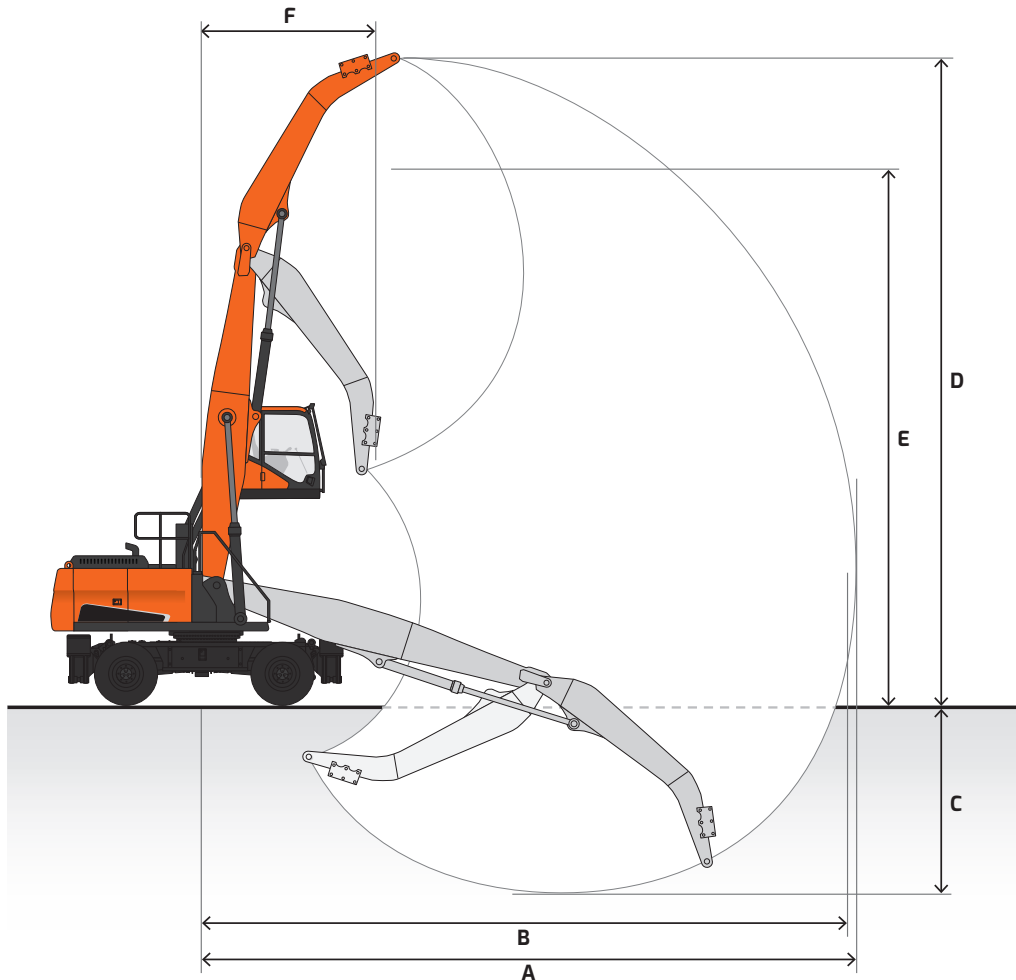
**With fixed cabin in transport position or elevating cabin lowered

***Elevating cabin hose guide

Working Range

DX210WMH-5 (US90)

Boom length	21' 4" (6500 mm)	
Arm length	14' 9" (4500 mm)	
Cab type	Hydraulic Cab Riser 0" – 6' 5" (1950 mm)	
Max. working reach	A	35' 9" (10900 mm)
Max. working reach (ground)	B	35' 2" (10720 mm)
Max. working depth	C	16' 5" (5000 mm)
Max. working height	D	39' 8" (12100 mm)
Max. loading height	E	31' 2" (9500 mm)
Min. swing radius	F	12' 0" (3660 mm)
Counterweight	11244 lb. (5100 kg)	
Operating weight	57221 lb. (25955 kg)	

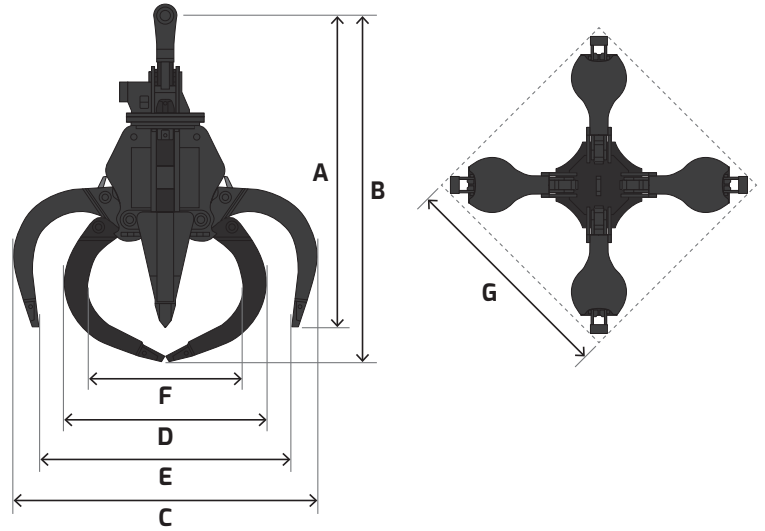


Grapple

DXG4063

Capacity	0.63 yd ³ (0.5 m ³)		
Weight	3064 lb. (1390 kg)		
Height	open	A	7' 8" (2326 mm)
	closed	B	8' 6" (2600 mm)
Width	open	C	7' 2" (2183 mm)
	closed	D	4' 8" (1420 mm)
Clearance	open	E	6' 0" (1838 mm)
	closed	F	3' 6" (1079 mm)
Width (square)	G	5' 5" (1643 mm)	
Underslung mount*	2.6" (65 mm)		
Rotation	12 rpm @ 4.3 gpm (16 L/min.)		

*Not shown on diagram



Magnet

48" Magnet















Diameter	48" (1219 mm)
Lift capacity (HM1)	1925 lb. (866 kg)
Lift capacity (HM2)	1275 lb. (574 kg)
Lift capacity (turnings)	525 lb. (236 kg)
Duty cycle	75%
Amps (cold)	44 amp
Voltage, DC	230 V
Sling type	Chain

Lifting Capacity

 Rating over front  Rating over side or 360°

DX210WMH-5 US90

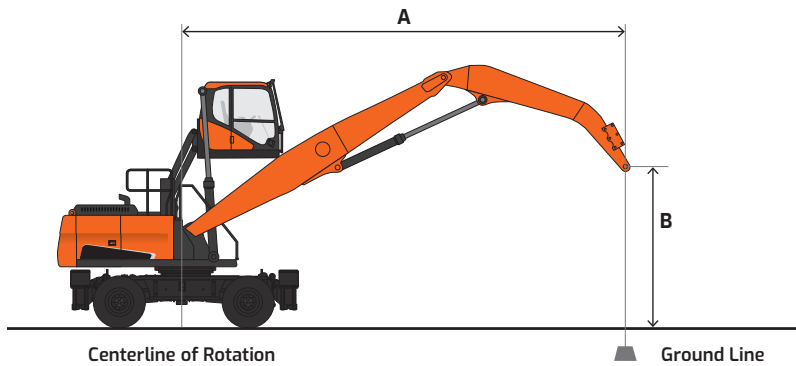
Boom: 21' 4" (6500 mm) | Arm: 14' 9" (4500 mm) | Counterweight: 11244 lb. (5100 kg) | Tire Size: 10.00R20 | Bucket: None | Unit: lb. (kg)

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)		Max. Reach			
															A	
40' (12.0 m)														(* 9080)	(* 9080)	(3.9 m)
35' (10.5 m)					* 13920 (* 6270)	* 13920 (* 6270)								* 13710 (* 6060)	* 13710 (* 6060)	21' 0" (6.64 m)
30' (9.0 m)					* 12910 (* 5880)	* 12910 (* 5880)	* 11820 (* 5370)	* 11820 (* 5370)						* 11570 (* 5190)	* 11570 (* 5190)	26' 8" (8.25 m)
25' (7.5 m)					* 12840 (* 5880)	* 12840 (* 5880)	* 11560 (* 5290)	* 11560 (* 5290)	* 10560 (* 4820)	9770 (4560)				* 10490 (* 4730)	9530 (4270)	30' 5" (9.35 m)
20' (6.0 m)					* 13420 (* 6170)	* 13420 (* 6170)	* 11780 (* 5410)	* 11780 (* 5410)	* 10500 (* 4820)	9770 (4540)				* 9770 (* 4420)	8320 (3750)	33' 0" (10.1 m)
15' (4.5 m)			* 17980 (* 8320)	* 17980 (* 8320)	* 14520 (* 6690)	* 14520 (* 6690)	* 12290 (* 5650)	* 12290 (* 5650)	* 10650 (* 4900)	9630 (4470)		(* 4230)	(3500)	* 9250 (* 4180)	7640 (3450)	34' 8" (10.59 m)
10' (3.0 m)			* 20830 (* 9640)	* 20830 (* 9640)	* 15800 (* 7290)	* 15800 (* 7290)	* 12850 (* 5920)	12380 (5740)	* 10820 (* 4990)	9420 (4370)		* 9020 (* 4190)	7450 (3460)	* 8770 (* 3970)	7270 (3300)	35' 7" (10.84 m)
5' (1.5 m)			* 22790 (* 10520)	* 22790 (* 10520)	* 16720 (* 7720)	16620 (7710)	* 13210 (* 6100)	11980 (5560)	* 10810 (* 5000)	9210 (4270)		* 8670 (* 4050)	7320 (3420)	* 8280 (* 3750)	7160 (3250)	35' 9" (10.89 m)
Ground Level	* 6940 (* 3030)	* 6940 (* 3030)	* 22650 (* 10010)	* 22650 (* 10010)	* 16740 (* 7720)	16060 (7460)	* 13060 (* 6030)	11670 (5410)	* 10420 (* 4830)	9040 (4190)		* 7810 (* 3710)	7310 (3390)	* 7690 (* 3490)	7270 (3300)	35' 2" (10.72 m)
-5' (-1.5 m)	* 10620 (* 4700)	* 10620 (* 4700)	* 20490 (* 9440)	* 20490 (* 9440)	* 15580 (* 7200)	* 15580 (* 7200)	* 12120 (* 5620)	11480 (5320)	* 9370 (* 4380)	8950 (4150)				* 6930 (* 3150)	* 6930 (* 3150)	33' 10" (10.32 m)
-10' (-3.0 m)	* 14580 (* 6470)	* 14580 (* 6470)	* 16670 (* 7710)	* 16670 (* 7710)	* 13140 (* 6100)	* 13140 (* 6100)	* 10150 (* 4740)	* 10150 (* 4740)	* 7190 (* 3450)	* 7190 (* 3450)				* 5810 (* 2660)	* 5810 (* 2660)	31' 8" (9.68 m)
-15' (-4.5 m)			* 11240 (* 5270)	* 11240 (* 5270)	* 9180 (* 4340)	* 9180 (* 4340)	* 6640 (* 3210)	* 6640 (* 3210)								

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, waste gate (WGT)	■
Cooled exhaust gas recirculation (CEGR)	■
Diesel oxidation catalyst (DOC)	■
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)	■
Bent 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, oil cooler (electric clutch direct drive)	■
Axial piston swing motor	■
Spring-applied hydraulic release brake, travel	■
Spring-applied hydraulic release brake, swing	■
Auxiliary hydraulics, one- and two-way piping	■
Auxiliary hydraulics, rotate piping	■
Adjustable auxiliary flow & pressure, 10 presets	■
Boom lock valves	■
Arm lock valve	■

Electrical

System voltage – 24 V	■
Alternator – 24 V, 80 amp	■
2 x 12 V batteries, 150 AH reserve capacity	■
Blade-type fuse panel	■
Main circuit breaker	■
Light, work (halogen): machine (2), boom (2)	■
Light, work (halogen): cabin, front (4), rear (2)	●
Light, street with brake lights	■
Rotating beacon	●
Hour meter	■
Engine restart prevention system	■
Rearview camera	■
Side view camera (right side)	●
Laptop service port	■
Self-diagnostics system	■
DEVELON Fleet Management	■

Cabin

Steel, all-weather & sound-suppressed	■
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)	●

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	■
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	■

Controls

Joystick controls	■
Pattern control change valve (SAE, ISO)	■
Joystick attachment control	■
Switches/buttons (one-way, two-way, power boost)	■
Control stands	■
- Height-adjustable	■
- Sliding (fore/aft)	■
Engine speed control dial	■
Switches, console-mounted	■
- Starter (key)	■
- Travel speed selector	■
- Work light	■
- Auxiliary mode switch	■
- Oscillation lock	■
- Parking brake	■
- Outrigger selection	■
- Cruise control	■
- Road lights	■
Switches & indicators, steering column	■
- Steering column positional lever	■
- Work/travel selector switch	■
- Turn signal control lever	■
- Hazard warning switch	■
- Turn signal/hazard light indicator	■
- Wiper & washer control	■
- Horn button	■
- High/low beam control	■
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	■
Steering console	■
Switches & indicators, steering column	■
- Tilting	■
- Telescoping	■
Throttle pedal, accelerator	■
Brake pedal	■
Joystick machine control	■
Switches/buttons (FnR, horn, deceleration)	■
Emergency steering	■

Undercarriage

Outrigger (2F/2R)	■
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Driveline

Transmission, 2-speed power-shift with creep	■
Planetary drive (front & rear axles)	■
Front axle, steerable & oscillating (+8°), lockable	■
Rear axle, fixed	■
Dual tires, 10.0 – 20 – 16 ply rating	■
Solid tires	●

Other

Centralized lubrication	■
- Boom	■
- Arm	■
- Swing bearing	■
Handrails & service platforms	■
Skid-resistant steps & service platforms	■
Wheel chocks	■
V-shape upper side guards	●
Catwalk	●
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)	■
Toolbox	■
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.

Powered by Innovation

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