

DEVELON

Mini Wheel Excavator

DX100W-7



Engine

Make	DEVELON
Model	D34
Number of cylinders	4
Rated power, gross (hp per SAE J1995)	100.6 hp (75 kW) @ 2000 rpm
Rated power, net (hp per SAE J1349)	100.6 hp (75 kW) @ 2000 rpm
Max. torque, net (SAE J1995)	316.8 lbf.-ft. (43.8 kgf-m) @ 1400 rpm
Displacement	208 in. ³ (3409 cm ³)
Bore and stroke	3.86 in. x 4.45 in. (98 mm x 113 mm)
Starter	12 V, 4.43 hp (3.3 kW)
Battery	12 V, 150 AH
Alternator	12 V, 140 amp
Air cleaner	Double elements

Hydraulics

Main pumps	1 x 50 gpm (200 L/min.)
Pilot pump (gear design)	6.1 gpm (23.2 L/min.)
Relief pressure	4409 psi (301 kg/cm ²)

Travel Pump (hydrostatic)

Max. displacement	484.8 gpm (56 cc/rev) @ 2000 rpm
Rated flow rate	29.6 gpm (112 L/min.) @ 2000 rpm
Pressure cut-off	6116 psi (430 kg/cm ²)

Maximum System Pressure

Boom/arm/bucket (normal mode)	4068 psi (286 kg/cm ²)
Swing (crossover relief)	3115 psi (219 kg/cm ²)

Tires and Wheels (standard)

Type	Double
Tire specification	8.25 - 20 - 14 PR
Rim specification	6.5 T x 20
Disc offset	5.3 in. (135 mm)

Swing Mechanism

Swing speed	0 - 10.6 rpm
Swing torque	13164.1 lbf.-ft. (1820 kgf-m)

Drive System

Travel speed, 1st gear (low - high)	3.35 - 10.5 mph (5.4 - 16.9 km/h)
Travel speed, 2nd gear (low - high)	8.0 - 23.2 mph (12.9 - 37.4 km/h)
Traction force, max. (drawbar pull)	9259 lbf. (4200 kgf)
Max. grade	39% (12.2°)
Min. turning radius	12 ft. 1.15 in. (3697 mm)

Environment

Sound level (ISO 6395)	98 dB(A)
Cabin sound level (ISO 6396)	73 dB(A)

Refill Capacities

Fuel tank	38.3 gal. (145 L)
Cooling system (radiator capacity)	4.2 gal. (16 L)
Engine oil	3.3 gal. (12.6 L)
Final drive (each side)	-
Hydraulic system	24.8 gal. (94 L)
Hydraulic tank	5.3 gal. (20 L)

Technical Specifications

Hydraulic Cylinders

Boom, lower (1) bore x rod diameter x stroke	4.5 in. x 2.7 in. x 30.5 in. (115 mm x 70 mm x 775 mm)
Boom, upper (2) bore x rod diameter x stroke	3.9 in. x 2.1 in. x 16.1 in. (100 mm x 55 mm x 410 mm)
Arm^{1,2} (1) bore x rod diameter x stroke	3.9 in. x 2.5 in. x 33.3 in. (100 mm x 65 mm x 846 mm)
Bucket¹ (1) bore x rod diameter x stroke	3.3 in. x 2.1 in. x 27.2 in. (85 mm x 55 mm x 690 mm)
Swing – boom¹ (1) bore x rod diameter x stroke	4.3 in. x 2.3 in. x 26.9 in. (110 mm x 60 mm x 684 mm)
F-Dozer & R-Outrigger¹ (4) bore x rod diameter x stroke	3.9 in. x 2.3 in. x 7 in. (100 mm x 60 mm x 179 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.

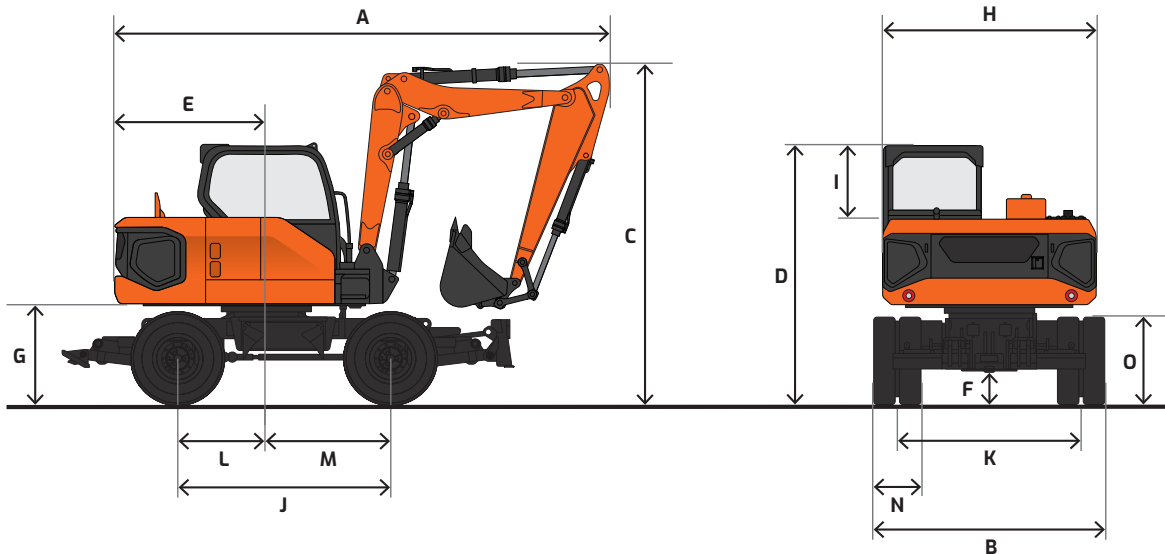
Dimensions

DX100W-7 F-Dozer & R-Outrigger Configuration (U510)

Boom type	Two-piece articulated boom	
Arm type	Standard arm	
Bucket type (SAE)	General purpose	
Wheel type	Four-wheel with double-tire	
Shipping "transport" length ¹	A	23' 10.6" (7281 mm)
Overall length		19' 3" (5867 mm)
Overall width	B	8' 0" (2450 mm)
Overall height	C	12' 11.6" (3952 mm)
Overall height - cabin	D	9' 10.5" (3011 mm)
Tail swing radius	E	5' 3" (1600 mm)
Ground clearance	F	1' 0" (321 mm)
Counterweight clearance	G	3' 7.3" (1100 mm)
Upper housing width	H	7' 4.6" (2250 mm)
Cabin height above house	I	2' 9.5" (850 mm)
Wheel base	J	7' 4.2" (2240 mm)
Tread width	K	6' 4.5" (1944 mm)
Center to wheel	L	3' 0" (932 mm)
	M	4' 3.5" (1308 mm)
Tire width (double-tire)	N	6.5" (165 mm)
Tire height	O	1' 8" (508 mm)
Undercarriage width ²	8' 0" (2450 mm)	
Blade height ²	1' 7.7" (500 mm)	
Max. blade lifting height ²	1' 1.8" (350 mm)	
Max. blade lowering depth ²	7" (175 mm)	

¹ Dozer at ground, front at ground

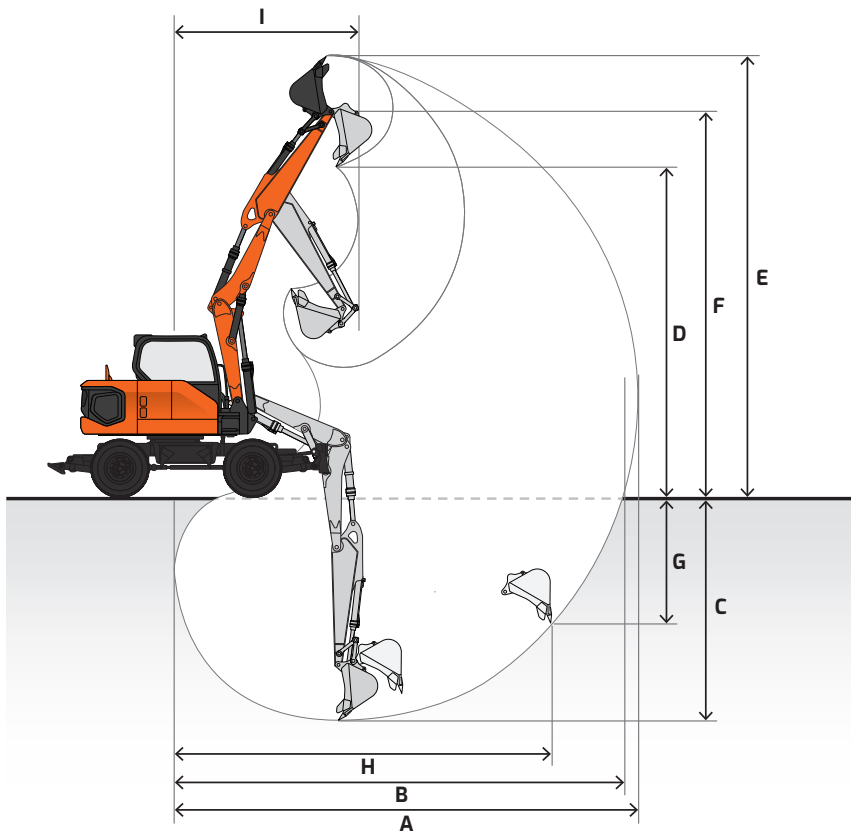
² Not shown on diagram



Working Range

DX100W-7 F-Dozer & R-Outrigger Configuration (U510)

Boom length	Lower: 6' 2.4" (1890 mm) Upper: 6' 2" (1880 mm)	
Arm length	7' 4.6" (2250 mm)	
Bucket capacity (SAE)	0.37 yd ³ (0.28 m ³)	
Max. digging reach	A	25' 8" (7820 mm)
Max. digging reach (ground)	B	24' 11.4" (7605 mm)
Max. digging depth	C	13' 11" (4245 mm)
Max. dumping height	D	20' 6" (6250 mm)
Max. digging height	E	27' 1.4" (8265 mm)
Max. bucket pin height	F	23' 9.6" (7255 mm)
Max. vertical wall depth	G	12' 0" (3670 mm)
Max. vertical digging radius	H	15' 9" (4800 mm)
Min. swing radius	I	10' 2.2" (3105 mm)
Digging force, bucket	ISO	13173 lbf. (5975 kgf)
Digging force, arm		8206 lbf. (3722 kgf)
Boom swing - left/right	60° / 60°	
Counterweight	2976 lb. (1350 kg)	
Operating weight	25221 lb. (11440 kg)	



Bucket

DX100W-7 (US10)

Boom, lower	6' 2.4" (1890 mm)
Boom, upper	6' 2" (1880 mm)
Arm	7' 4.6" (2250 mm)
Tire width	6' 4.5" (1944 mm)
Wheel type	Double-tire
Counterweight	2976 lb. (1350 kg)

Bucket Type	Model	Capacity* yd ³ (m ³)	Width in. (mm)	Weight lb. (kg)	Height in. (mm)	Length in. (mm)	Number of Teeth	Connection/ Type
Quick-hitch Ditching (QH08GB)	DC08GB-42QH	0.53 (0.41)	42 (1066.8)	520 (236.0)	26.1875 (655)	32.6875 (830.3)	-	Quick-hitch 1.75"
	DC08GB-48QH	0.62 (0.47)	48 (1219.2)	578 (262.1)				
	DC08GB-54QH	0.7 (0.54)	54 (1371.6)	636 (286.5)				
	DC08GB-60QH	0.8 (0.61)	60 (1524.0)	694 (314.8)				
Quick-hitch Heavy-Duty (QH08GB)	HD08GB-12QH	0.15 (0.11)	12 (304.8)	260 (117.9)	28.3125 (719)	43.375 (1101.7)	3	Quick-hitch 1.75"
	HD08GB-18QH	0.21 (0.16)	18 (457.2)	315 (142.9)			4	
	HD08GB-24QH	0.32 (0.24)	24 (609.6)	361 (163.7)			4	
	HD08GB-30QH	0.42 (0.32)	30 (762.0)	430 (195.0)			5	
	HD08GB-36QH	0.52 (0.4)	36 (914.4)	490 (222.2)			6	
Pin-on Ditching	DC08GB-42	0.59 (0.45)	43 (1092.2)	545 (247.2)	33.25 (844.5)	39.5 (1003.3)	-	Pin-on
	DC08GB-48	0.7 (0.54)	49 (1244.6)	610 (276.7)				
	DC08GB-54	0.78 (0.6)	55 (1397.0)	665 (301.6)				
	DC08GB-60	0.88 (0.67)	61 (1549.4)	700 (317.5)				
Pin-on Heavy-Duty	HD08GB-14	0.18 (0.14)	15.5 (393.7)	385 (174.6)	33.5 (850.9)	44 (1117.6)	3	Pin-on
	HD08GB-18	0.23 (0.18)	19 (482.6)	450 (204.1)			4	
	HD08GB-24	0.33 (0.25)	25 (635.0)	510 (231.3)			4	
	HD08GB-30	0.45 (0.34)	31 (787.4)	635 (288.0)			5	
	HD08GB-36	0.54 (0.41)	37 (939.8)	655 (297.1)			6	

*Capacity based on ISO 7451 and heaped with a 1:1 angle of repose

· Equipped with bolt-on wear shrouds

· Equipped with bolt-on teeth

· Equipped with bolt-on cutting edge

· These recommendations are given as a guide only and based on typical operating conditions.













Please consult with your DEVELON dealer to properly match buckets and attachments for the application.

Lifting Capacity

 Rating over front  Rating over side or 360°













DX100W-7 US10

Boom, lower: 6' 2" (1880 mm), upper: 6' 2.4" (1890 mm) | Arm: 7' 4.6" (2250 mm) | Counterweight: 2976 lb. (1350 kg) | Dozer DOWN | Bucket: None | Unit: lb. (kg)

B (ft. or m)	A (ft. or m)		5' (1.5 m)		10' (3.0 m)		15' (4.5 m)		20' (6.0 m)		Max. Reach		A
													
20' (6.0 m)					* 4420 * 2010	* 4420 * 2010					* 4150 * 1880	* 4150 * 1880	16.13' (4.91 m)
15' (4.5 m)					* 4230 * 1920	* 4230 * 1920	* 3850 * 1750	3400 1540	* 3420 * 1550		3290 1490		20.02' (6.10 m)
10' (3.0 m)					* 4940 * 2240	* 4940 * 2240	* 3910 * 1770	3350 1520	* 3230 * 1470		2800 1270		21.88' (6.67 m)
5' (1.5 m)					* 5820 * 2640	4890 2220	* 4080 * 1850	3220 1460	* 3320 * 1510		2670 1210		22.32' (6.80 m)
Ground Level			* 6870 * 3110	* 6870 * 3110	* 5920 * 2680	4660 2110	* 3880 * 1760	3130 1420	* 3110 * 1410		2790 1270		21.45' (6.54 m)
-5' (-1.5 m)	* 7400 * 3360	* 7400 * 3360	* 7500 * 3400	* 7500 * 3400	* 4740 * 2150	4640 2100			* 2580 * 1170		* 2580 * 1170		19.06' (5.81 m)
-10' (-3.0 m)									* 1550 * 700		* 1550 * 700		13.26' (4.04 m)

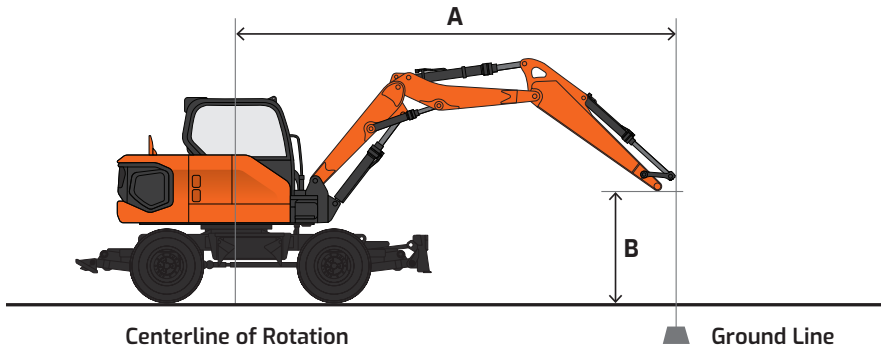
DX100W-7 US10

Boom, lower: 6' 2" (1880 mm), upper: 6' 2.4" (1890 mm) | Arm: 7' 4.6" (2250 mm) | Counterweight: 2976 lb. (1350 kg) | Dozer UP | Bucket: None | Unit: lb. (kg)

B (ft. or m)	A (ft. or m)		5' (1.5 m)		10' (3.0 m)		15' (4.5 m)		20' (6.0 m)		Max. Reach		A
													
20' (6.0 m)					* 4420 * 2010	* 4420 * 2010					* 4150 * 1880	4020 1820	16.13' (4.91 m)
15' (4.5 m)					* 4230 * 1920	* 4230 * 1920	3130 1420	2910 1320	3030 1370		2810 1270		20.02' (6.10 m)
10' (3.0 m)					4810 2180	4510 2050	3090 1400	2870 1300	2580 1170		2380 1080		21.88' (6.67 m)
5' (1.5 m)					4450 2020	4150 1880	2960 1340	2740 1240	2450 1110		2260 1020		22.32' (6.80 m)
Ground Level			* 6870 * 3110	* 6870 * 3110	4220 1910	3920 1780	2870 1300	2650 1200	2570 1160		2370 1070		21.45' (6.54 m)
-5' (-1.5 m)	* 7400 * 3360	* 7400 * 3360	* 7500 * 3400	7070 3210	4200 1910	3900 1770			* 2580 * 1170		* 2580 * 1170		19.06' (5.81 m)
-10' (-3.0 m)									* 1550 * 700		* 1550 * 700		13.26' (4.04 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 Base Package

■ Standard • Optional

Engine

Emissions, T4 (EPA)	■
Direct fuel injected	■
Fuel filter with water separator	■
Coolant recovery tank	■
Dual element dry-type air filter	■
Electronic engine control	■
Auto idle	■
Overheat & low oil pressure engine protection	■

Hydraulic

Variable axial piston main pump	■
Load-sensing pump control	■
Pilot-operated control valves	■
Pilot gear pump (tandem)	■
Axial piston swing motor	■
Spring-applied hydraulic release brake	■
Axial piston travel motor (high/low, auto)	■
Auxiliary hydraulics, two-way	■

Electrical

Alternator – 12 V, 140 amp	■
12 V battery, 725 AH	■
Light: boom (2)	■
Additional working lamps (LED)	■
Rotating beacon	■
Hour meter	■
Laptop service port	■
Self-diagnostics system	■
Around view camera with ultrasonic sensor	■

Cabin

Steel, all-weather & sound-suppressed	■
ROPS/TOPS	■
Front window with wiper/washer	■
Tinted safety glass	■
Skylight	■
Lockable doors	■
Seat	■
- 2" (51 mm) seat belt	
- Adjustable height & recline	
- Air suspension with heating ability	
Adjustable armrests	■
Air conditioner with heater	■
DEVELON gauge panel – 8 in. touch screen	■
Speakers (2)	■
Power socket, 12 V	■
Interior light	■
Storage for operator's manuals	■

Controls

Joystick controls	■
- Two hydraulic joysticks control boom, arm, bucket & slew functions	
- Thumb buttons control auxiliary hydraulics & boom swing	
Blade control lever	■
- Thumb button controls travel speed low/high	
Pattern control change valve (SAE, ISO)	■
Engine speed control dial	■
Travel pedals with hand levers	■
Switches, console-mounted	■
- Starter switch (key)	
- Heater/AC control panel	
- Boom swing switch	
- Rotating beacon (if equipped)	
- 12 V power socket & USB charger	
- Keypad buttons	
- Power mode	■
- Work mode	
- Crab/round selector	
- Overload warning	
- Travel/swing alarm	
- Light	
- Work lights	
- Wiper & washer	
- Auto idle	
Emergency stop switch	■

Display Monitor & Warnings

Buzzer	■
- Engine oil pressure	
- Coolant temperature	
Touch screen display monitor	■
- Digital clock	
- Menu select button	
- Back button	
- Fuel gauge	
- Engine coolant temperature	■
- Hydraulic oil temperature	
- Mode	
- Tachometer	
- Operating mode/flow setting selector	
Indicator lights	■
- Air filter restriction indicator	
- Engine check warning light	
- Hydraulic oil warning	
- Fuel warning	■
- Auto idle indicator	
- Auxiliary flow mode indicator	
- Engine oil pressure light with audible alarm	
- Pre-heat (cold start assist) indicator	
- Two-speed travel indicator light	
Travel alarm	■

Undercarriage

Front dozer attachment	■
Rear outrigger attachment	■
Double tires – 8.25 – 20 – 14 ply rating	■
Four-wheel steering	■
Front axle oscillation lock modes (on/off/auto)	■
Rear & front chain tightening eyes	■
Fender, steel	■
Cruise control	■

Other

Centralized lubrication	■
- Swing pinion	
- Swing bearing	
Manuals	■
- Operation	
- AEM Safety Manual	
- Parts	
- Service	
Vandalism protection	■
- Lockable panels	
- Lockable fluid fill points	
DEVELON Fleet Management 3-year subscription	■
Articulated boom (6' 2" upper, 6' 2.4" lower)	■
Auxiliary 2 ("rotating") piping	■
Quick-coupler piping	■

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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