

DEVELON

Mini Excavator

DX17Z-7



Engine

Make	Kubota
Model	D902
Number of cylinders	3
Rated power, gross (hp per SAE J1995)	16.5 hp (12.1 kW) @ 2400 rpm
Rated power, net (hp per SAE J1349)	16.2 hp (11.9 kW) @ 2400 rpm
Max. torque, net (SAE J1995)	40.3 lbf·ft. (5.6 kgf·m) @ 1900 rpm
Displacement	54.8 in. ³ (0.9 L)
Bore and stroke	2.8 in. x 2.9 in. (72 mm x 73.6 mm)
Starter	12 V, 1.6 hp (1.2 kW)
Battery	12 V, 45 AH
Alternator	12 V, 40 amp
Air cleaner	Double elements

Hydraulics

Main pumps	2 x 4.5 gpm (17.3 L/min.)
Pilot pump (gear design)	2.7 gpm (10.4 L/min.)
Relief pressure	3272 psi (230 kg/cm ²)

Maximum System Pressure

Boom/arm/bucket (normal mode)	2987 psi (210 kg/cm ²)
Swing (crossover relief)	1920 psi (135 kg/cm ²)

Undercarriage

Upper rollers (each track)	1
Lower rollers (each track)	3
Number of shoes (links per side)	Single assembly (rubber)

Swing Mechanism

Swing speed	0 – 9.2 rpm
Swing torque	2625.6 lbf·ft. (363 kgf·m)

Drive System

Travel speed (low – high)	1.4 – 2.5 mph (2.2 – 4.1 km/h)
Traction force, max. (drawbar pull)	3130 lbf. (1420 kgf)
Max. grade	58% (30°)

Environment

Sound level (ISO 6395)	93 dB(A)
Cabin sound level (ISO 6396)	78 dB(A)

Refill Capacities

Fuel tank	5.2 gal. (19.5 L)
Cooling system (radiator capacity)	0.9 gal. (3.5 L)
Engine oil	1.0 gal. (3.7 L)
Final drive (each side)	0.1 gal. (0.3 L)
Hydraulic system	3.4 gal. (13.0 L)
Hydraulic tank	3.2 gal. (12.1 L)

Hydraulic Cylinders

Boom ⁽¹⁾ bore x rod diameter x stroke	2.4 in. x 1.6 in. x 18.7 in. (60 mm x 40 mm x 476 mm)
Arm ^(1,2) bore x rod diameter x stroke	2.4 in. x 1.6 in. x 15.5 in. (60 mm x 40 mm x 393 mm)
Bucket ⁽¹⁾ bore x rod diameter x stroke	2.2 in. x 1.4 in. x 13.6 in. (55 mm x 35 mm x 345 mm)
Swing – boom ⁽¹⁾ bore x rod diameter x stroke	2.2 in. x 1.2 in. x 14.0 in. (55 mm x 30 mm x 355 mm)
Blade ⁽¹⁾ bore x rod diameter x stroke	2.5 in. x 1.2 in. x 3.7 in. (65 mm x 30 mm x 93 mm)

¹ Cushion on rod end

² Cushion on base end

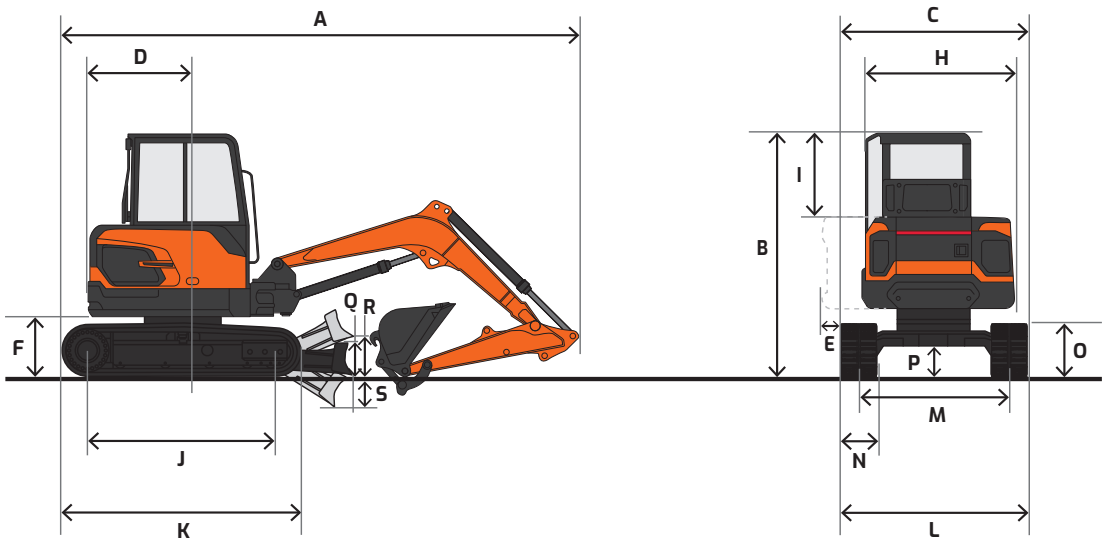
The piston rods and cylinder bodies are made of high-strength steel. A shock-absorbing mechanism is fitted in all cylinders to ensure shock-free operation and extended piston life.

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. Pictures of DEVELON mini excavators 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. All dimensions are given for DEVELON mini excavators equipped with standard rubber tracks.

Dimensions

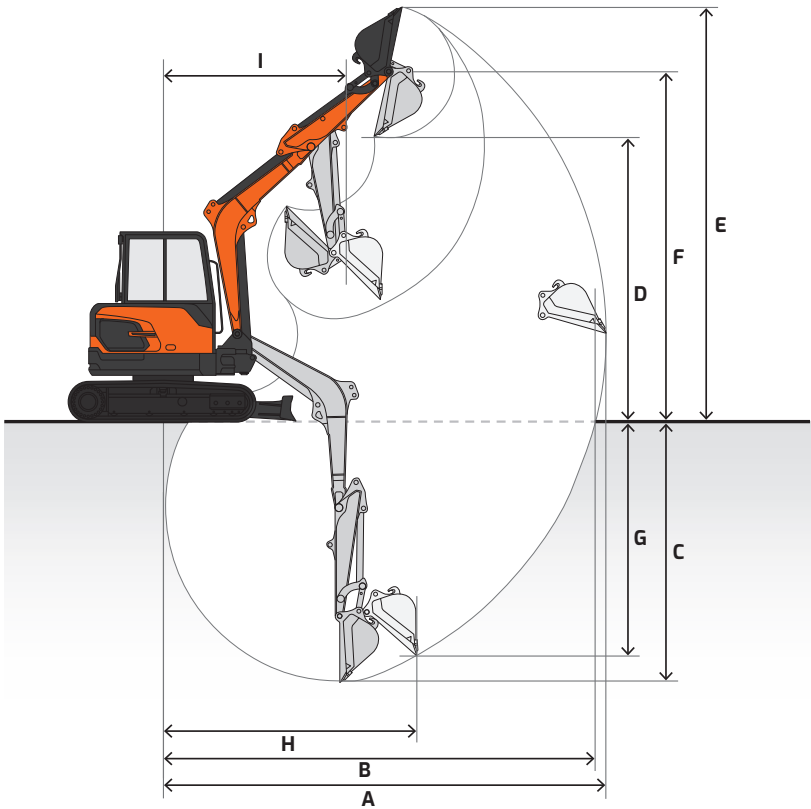
		Standard Arm (U530)	Long Arm (U531)
Boom type		One-piece swing boom	
Arm type		Standard arm	Long arm
Bucket type (SAE)		General purpose	
Track type		Fixed (rubber)	
Shipping length	A	11' 7" (3528 mm)	
Overall height	B	7' 7" (2320 mm)	
Shipping width	C	3' 3" – 4' 3" (990 – 1300 mm)	
Tail swing radius	D	2' 1" (645 mm)	2' 4" (720 mm)
Tail swing overhang (rear)*		–	
Tail swing overhang (side)	E	–	
Counterweight clearance	F	1' 4" (415 mm)	
Upper structure width	H	3' 3" (980 mm)	
Cabin height above house	I	4' 0" (1225 mm)	
Tumbler distance	J	4' 0" (1230 mm)	
Overall track length	K	5' 2" (1580 mm)	
Undercarriage width	L	3' 3" – 4' 3" (994 – 1290 mm)	
Track gauge	M	2' 6" – 3' 6" (764 – 1060 mm)	
Track width	N	9" (230 mm)	
Track height	O	10" (247 mm)	
Car body clearance	P	6" (150 mm)	
Blade height	Q	9" (225 mm)	
Blade clearance	R	7" (183 mm)	
Max. blade cut, below ground	S	9" (222 mm)	

*Not shown on diagram
Less than zero indicated as "-"



Working Range

		Standard Arm (US30)	Long Arm (US31)
Boom length		5' 9" (1750 mm)	
Arm length		3' 4.5" (1030 mm)	4' 0" (1230 mm)
Bucket capacity (SAE)		0.05 yd ³ (0.04 m ³)	
Max. digging reach	A	12' 10" (3910 mm)	13' 5" (4100 mm)
Max. digging reach (ground)	B	12' 6" (3820 mm)	13' 2" (4010 mm)
Max. digging depth	C	7' 4" (2240 mm)	8' 0" (2440 mm)
Max. dumping height	D	8' 9" (2670 mm)	9' 3" (2810 mm)
Max. digging height	E	12' 3" (3730 mm)	12' 8" (3870 mm)
Max. bucket pin height	F	10' 6" (3200 mm)	10' 11.5" (3340 mm)
Max. vertical wall depth	G	5' 9" (1750 mm)	6' 4" (1940 mm)
Max. vertical digging radius	H	10' 6" (3200 mm)	10' 11.5" (3340 mm)
Min. swing radius	I	5' 2" (1580 mm)	5' 5" (1645 mm)
Boom swing – left/right		44° / 69°	
Digging force, bucket (ISO)		3668 lbf. (1664 kgf)	
Digging force, arm (ISO)		2057 lbf. (933 kgf)	1812 lbf. (822 kgf)
Counterweight		590 lb. (268 kg)	
Operating weight		4210 lb. (1910 kg)	4370 lb. (1980 kg)
Ground pressure		4.4 psi (0.31 kg/cm ²)	4.7 psi (0.33 kg/cm ²)



Bucket

	Standard Arm (US30)	Long Arm (US31)
Boom	5' 9" (1750 mm)	
Arm	3' 4.5" (1030 mm)	4' 0" (1230 mm)
Shoe size	9" (230 mm)	
Track type	Fixed (rubber)	
Counterweight	590 lb. (268 kg)	

Bucket Type	Model	Capacity* yd³ (m³)	Width in. (mm)	Weight lb. (kg)	Height in. (mm)	Length in. (mm)	Number of teeth	Connection/ Type
Quick-hitch Ditching (QH01GB)	DC01GB-24QH	0.08 (0.06)	24 (609.6)	125 (56.7)	14.25 (362)	20 (508)	–	Quick-hitch
	DC01GB-30QH	0.1 (0.07)	30 (762)	155 (70.3)				
	DC01GB-36QH	0.12 (0.09)	36 (914.4)	180 (81.6)				
Quick-hitch Heavy-Duty (QH01GB)	HD01GB-12QH	0.04 (0.03)	12 (304.8)	90 (40.8)	15.375 (390)	24 (609.6)	3	Quick-hitch
	HD01GB-16QH	0.04 (0.03)	16 (406.4)	120 (54.4)			4	
	HD01GB-18QH	0.06 (0.045)	18 (457.2)	135 (61.2)			4	
	HD01GB-20QH	0.07 (0.05)	20 (508)	150 (68)			4	
	HD01GB-24QH	0.09 (0.07)	24 (609.6)	180 (81.6)			5	
Pin-on Ditching	DC01GB-24	0.08 (0.06)	24 (609.6)	134 (60.8)	17.1875 (436.5)	19 (482.6)	–	Pin-on
	DC01GB-30	0.1 (0.07)	30 (762)	158 (71.7)				
	DC01GB-36	0.12 (0.09)	36 (914.4)	182 (82.5)				
Pin-on Heavy-Duty	HD01GB-12	0.04 (0.03)	12 (304.8)	95 (43)	17.125 (435)	24.5625 (624)	3	Pin-on
	HD01GB-16	0.05 (0.04)	16 (406.4)	114 (51.7)			4	
	HD01GB-18	0.06 (0.045)	18 (457.2)	139 (63)			4	
	HD01GB-20	0.07 (0.05)	20 (508)	143 (64.8)			4	
	HD01GB-24	0.09 (0.07)	24 (609.6)	155 (70.3)			5	

*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°

DX17Z-7 US30

Boom: 5' 11" (1800 mm) | Arm: 3' 2" (960 mm) | Counterweight: 397 lb. (180 kg) | Bucket: 0.05 yd³ (0.04 m³) | Dozer Down | Unit lb. (kg)

B (ft. or m) A (ft. or m)	3.3' (1.0 m)		4.9' (1.5 m)		6.6' (2.0 m)		8.2' (2.5 m)		9.8' (3.0 m)		Max Reach		A
													
9.8' (3.0 m)											* 710 (* 320)	* 710 (* 320)	7.4' (2.26 m)
8.2' (2.5 m)							* 680 (* 310)	* 680 (* 310)			* 620 (* 280)	* 620 (* 280)	9.2' (2.8 m)
6.6' (2.0 m)							* 730 (* 330)	* 730 (* 330)	* 750 (* 340)	570 (260)	* 600 (* 270)	530 (240)	10.3' (3.12 m)
4.9' (1.5 m)					* 950 (* 430)	* 950 (* 430)	* 840 (* 380)	770 (350)	* 790 (* 360)	550 (250)	* 600 (* 270)	460 (210)	10.9' (3.32 m)
3.3' (1.0 m)					* 1340 (* 610)	1060 (480)	* 1010 (* 460)	730 (330)	* 860 (* 390)	550 (250)	* 620 (* 280)	440 (200)	11.2' (3.41 m)
1.6' (0.5 m)			* 1460 (* 660)	* 1460 (* 660)	* 1700 (* 770)	990 (450)	* 1190 (* 540)	710 (320)	* 950 (* 430)	530 (240)	* 680 (* 310)	420 (190)	11.2' (3.40 m)
Ground Level			* 1810 (* 820)	1520 (690)	* 1850 (* 840)	950 (430)	* 1300 (* 590)	680 (310)	* 990 (* 450)	510 (230)	* 820 (* 370)	440 (200)	10.8' (3.30 m)
-1.6' (-0.5 m)	* 1740 (* 790)	* 1740 (* 790)	* 2540 (* 1150)	1520 (690)	* 1830 (* 830)	950 (430)	* 1300 (* 590)	660 (300)	* 970 (* 440)	510 (230)	* 900 (* 410)	490 (220)	10.2' (3.10 m)
-3.3' (-1.0 m)	* 2470 (* 1120)	* 2470 (* 1120)	* 2470 (* 1120)	1540 (700)	* 1630 (* 740)	950 (430)	* 1170 (* 530)	680 (310)			* 970 (* 440)	570 (260)	9.1' (2.76 m)
-4.9' (-1.5 m)	* 3260 (* 1480)	* 3260 (* 1480)	* 1740 (* 790)	1590 (720)	* 1170 (* 530)	970 (440)					* 990 (* 450)	840 (380)	7.2' (2.19 m)

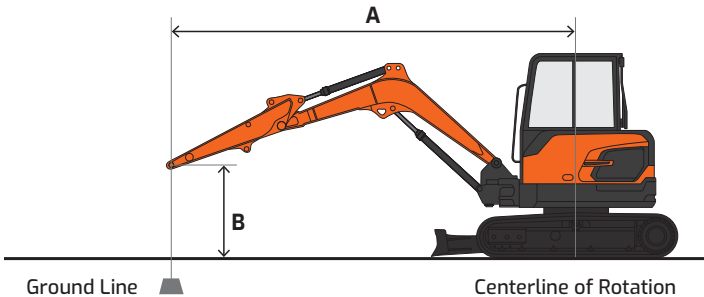
DX17Z-7 US30

Boom: 5' 11" (1800 mm) | Arm: 3' 2" (960 mm) | Counterweight: 397 lb. (180 kg) | Bucket: 0.05 yd³ (0.04 m³) | Dozer Up | Unit lb. (kg)

B (ft. or m) A (ft. or m)	3.3' (1.0 m)		4.9' (1.5 m)		6.6' (2.0 m)		8.2' (2.5 m)		9.8' (3.0 m)		Max Reach		A
													
9.8' (3.0 m)											* 710 (* 320)	* 710 (* 320)	7.4' (2.26 m)
8.2' (2.5 m)							* 680 (* 310)	* 680 (* 310)			* 620 (* 280)	600 (270)	9.2' (2.8 m)
6.6' (2.0 m)							* 730 (* 330)	* 730 (* 330)	550 (250)	530 (240)	510 (230)	490 (220)	10.3' (3.12 m)
4.9' (1.5 m)					* 950 (* 430)	* 950 (* 430)	750 (340)	710 (320)	550 (250)	510 (230)	440 (200)	420 (190)	10.9' (3.32 m)
3.3' (1.0 m)					1040 (470)	970 (440)	730 (330)	680 (310)	530 (240)	510 (230)	420 (190)	400 (180)	11.2' (3.41 m)
1.6' (0.5 m)			* 1460 (* 660)	1410 (640)	970 (440)	900 (410)	680 (310)	640 (290)	510 (230)	490 (220)	420 (190)	400 (180)	11.2' (3.40 m)
Ground Level			1520 (690)	1390 (630)	930 (420)	880 (400)	660 (300)	620 (280)	510 (230)	460 (210)	420 (190)	400 (180)	10.8' (3.30 m)
-1.6' (-0.5 m)	* 1740 (* 790)	* 1740 (* 790)	1520 (690)	1390 (630)	930 (420)	860 (390)	660 (300)	620 (280)	490 (220)	460 (210)	460 (210)	440 (200)	10.2' (3.10 m)
-3.3' (-1.0 m)	* 2470 (* 1120)	* 2470 (* 1120)	1540 (700)	1410 (640)	930 (420)	860 (390)	660 (300)	620 (280)			570 (260)	530 (240)	9.1' (2.76 m)
-4.9' (-1.5 m)	* 3260 (* 1480)	* 3260 (* 1480)	1590 (720)	1430 (650)	970 (440)	900 (410)					840 (380)	770 (350)	7.2' (2.19 m)

A Distance from center of rotation
B Height

NOTE: Do not use dozer blade as an outrigger. 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°

DX17Z-7 US31

Boom: 5' 11" (1800 mm) | Arm: 3' 8" (1120 mm) | Counterweight: 397 lb. (180 kg) | Bucket: 0.05 yd³ (0.04 m³) | Dozer Down | Unit lb. (kg)

B (ft. or m) A (ft. or m)	3.3' (1.0 m)		4.9' (1.5 m)		6.6' (2.0 m)		8.2' (2.5 m)		9.8' (3.0 m)		11.5' (3.5 m)		Max Reach		
														A	
9.8' (3.0 m)							* 640 (* 290)	* 640 (* 290)				* 550 (* 250)	* 550 (* 250)	8.4' (2.57 m)	
8.2' (2.5 m)							* 550 (* 250)	* 550 (* 250)	* 550 (* 250)	* 550 (* 250)		* 490 (* 220)	* 490 (* 220)	10' (3.04 m)	
6.6' (2.0 m)							* 600 (* 270)	* 600 (* 270)	* 640 (* 290)	570 (260)		* 460 (* 210)	460 (210)	11' (3.34 m)	
4.9' (1.5 m)				* 750 (* 340)	* 750 (* 340)		* 730 (* 330)	* 730 (* 330)	* 710 (* 320)	550 (250)	* 510 (* 230)	420 (190)	* 490 (* 220)	420 (190)	11.5' (3.52 m)
3.3' (1.0 m)			* 1810 (* 820)	1740 (790)	* 1150 (* 520)	1060 (480)	* 930 (* 420)	730 (330)	* 790 (* 360)	530 (240)	* 730 (* 330)	420 (190)	* 510 (* 230)	400 (180)	11.8' (3.60 m)
1.6' (0.5 m)			* 1920 (* 870)	1570 (710)	* 1540 (* 700)	990 (450)	* 1100 (* 500)	710 (320)	* 900 (* 410)	510 (230)	* 770 (* 350)	400 (180)	* 550 (* 250)	370 (170)	11.8' (3.60 m)
Ground Level	* 950 (* 430)	* 950 (* 430)	* 1810 (* 820)	1500 (680)	* 1790 (* 810)	950 (430)	* 1230 (* 560)	660 (300)	* 970 (* 440)	510 (230)	* 640 (* 290)	400 (180)	* 620 (* 280)	400 (180)	11.5' (3.50 m)
-1.6' (-0.5 m)	* 1500 (* 680)	* 1500 (* 680)	* 2310 (* 1050)	1500 (680)	* 1830 (* 830)	930 (420)	* 1300 (* 590)	660 (300)	* 970 (* 440)	490 (220)			* 770 (* 350)	420 (190)	10.9' (3.32 m)
-3.3' (-1.0 m)	* 2090 (* 950)	* 2090 (* 950)	* 2670 (* 1210)	1500 (680)	* 1720 (* 780)	930 (420)	* 1210 (* 550)	660 (300)	* 880 (* 400)	490 (220)			* 880 (* 400)	490 (220)	9.9' (3.01 m)
-4.9' (-1.5 m)	* 2820 (* 1280)	* 2820 (* 1280)	* 2090 (* 950)	1540 (700)	* 1390 (* 630)	950 (430)	* 930 (* 420)	660 (300)					* 930 (* 420)	660 (300)	8.3' (2.52 m)

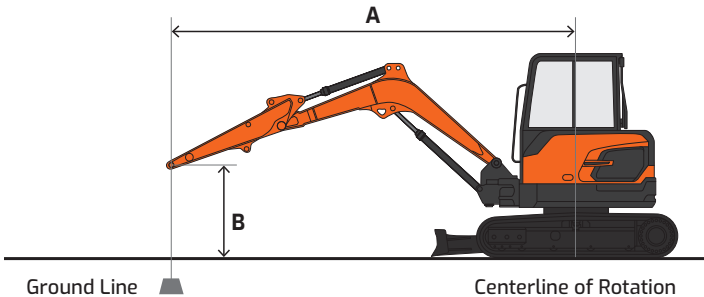
DX17Z-7 US31

Boom: 5' 11" (1800 mm) | Arm: 3' 8" (1120 mm) | Counterweight: 397 lb. (180 kg) | Bucket: 0.05 yd³ (0.04 m³) | Dozer Up | Unit lb. (kg)

B (ft. or m) A (ft. or m)	3.3' (1.0 m)		4.9' (1.5 m)		6.6' (2.0 m)		8.2' (2.5 m)		9.8' (3.0 m)		11.5' (3.5 m)		Max Reach		
														A	
9.8' (3.0 m)							* 640 (* 290)	* 640 (* 290)				* 550 (* 250)	* 550 (* 250)	8.4' (2.57 m)	
8.2' (2.5 m)							* 550 (* 250)	* 550 (* 250)	550 (250)	530 (240)		* 490 (* 220)	* 490 (* 220)	10' (3.04 m)	
6.6' (2.0 m)							* 600 (* 270)	* 600 (* 270)	550 (250)	530 (240)		440 (200)	420 (190)	11' (3.34 m)	
4.9' (1.5 m)				* 750 (* 340)	* 750 (* 340)		* 730 (* 330)	710 (320)	550 (250)	510 (230)	400 (180)	370 (170)	400 (180)	370 (170)	11.5' (3.52 m)
3.3' (1.0 m)			1720 (780)	1590 (720)	1040 (470)	970 (440)	730 (330)	680 (310)	530 (240)	490 (220)	400 (180)	370 (170)	370 (170)	350 (160)	11.8' (3.60 m)
1.6' (0.5 m)			1540 (700)	1410 (640)	970 (440)	900 (410)	680 (310)	640 (290)	510 (230)	490 (220)	370 (170)	370 (170)	370 (170)	350 (160)	11.8' (3.60 m)
Ground Level	* 950 (* 430)	* 950 (* 430)	1500 (680)	1370 (620)	930 (420)	860 (390)	660 (300)	620 (280)	490 (220)	460 (210)	370 (170)	350 (160)	370 (170)	350 (160)	11.5' (3.50 m)
-1.6' (-0.5 m)	* 1500 (* 680)	* 1500 (* 680)	1480 (670)	1340 (610)	900 (410)	840 (380)	640 (290)	600 (270)	490 (220)	440 (200)		420 (190)	370 (170)		10.9' (3.32 m)
-3.3' (-1.0 m)	* 2090 (* 950)	* 2090 (* 950)	1500 (680)	1370 (620)	900 (410)	840 (380)	640 (290)	600 (270)	490 (220)	460 (210)		490 (220)	440 (200)		9.9' (3.01 m)
-4.9' (-1.5 m)	* 2820 (* 1280)	* 2820 (* 1280)	1520 (690)	1390 (630)	930 (420)	860 (390)	660 (300)	620 (280)				640 (290)	600 (270)		8.3' (2.52 m)

A Distance from center of rotation
B Height

NOTE: Do not use dozer blade as an outrigger. 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, US30

■ Standard ● Optional

Engine

Emissions, Tier 4 final (EPA)	■
Indirect fuel-injected	■
Fuel filter with water separator	■
Coolant recovery tank	■
Dual element dry-type air filter	■
Electronic engine control	■
Overheat engine protection	■

Hydraulic

Variable tandem axis piston pumps	■
Pilot-operated control valves	■
Fixed displacement gear pump	■
Axial piston swing motor	■
Spring-applied hydraulic release brake	■
Axial piston travel motor (high/low, auto)	■
Auxiliary hydraulics, two-way	■

Electrical

Alternator – 12 V, 40 A	■
12 V battery	■
Light: boom (1)	■
Hour meter	■
Laptop service port	■
Self-diagnostics system	■

Cabin

ROPS/TOPS	■
Seat - 2" (51 mm) seat belt - Adjustable height & recline	■
Adjustable armrests	■
Instrumentation panel, digital	■
Power socket, 12 V	■
Storage for operator's manuals	■

Controls

Joystick controls - Two hydraulic joysticks control boom, arm, bucket & slew functions - Thumbwheels control auxiliary hydraulics (if equipped)	■
Blade control lever	■
Pattern control change valve (SAE, ISO)	■
Engine speed control dial	■
Travel pedals with hand levers	■
Switches, console-mounted - Starter switch (key) - Rotating beacon (if equipped) - 12 V power socket - Keypad buttons - Overload warning - Travel alarm - Light - Work lights	■

Display Monitor & Warnings

Buzzer - Engine oil pressure - Coolant temperature	■
5-inch display monitor - Digital clock - Menu select button - Back button - Fuel gauge - Engine coolant temperature - Hydraulic oil temperature - Mode - Operating mode/flow setting selector	■
Indicator lights - Emergency warning - Engine oil warning - Battery warning - Fuel low level warning - Travel speed - Preheat indicator - Manual safety valve - Maintenance indicator - Engine RPM gauge - Engine coolant temperature	■
Travel alarm	■

Undercarriage

Track rollers, upper (1 each side)	■
Track rollers, lower (3 each side)	■
Rubber tracks – 230 mm	■

Other

Collapsible dozer blade	■
Manuals - Operation - AEM Safety Manual	■
Vandalism protection - Lockable panels - Lockable fluid fill points	■
Retractable track	■

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 Hyundai Infracore.

na.develon-ce.com/dx17z-7

DX17Z-7 Mini Excavator Spec Sheet
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