

DEVELON

Wheel Excavator

DX190W-7K



Engine

Make	DEVELON
Model	DL06V
Number of cylinders	6
Rated power, gross (hp per SAE J1995)	174.3 hp (130 kW) @ 1900 rpm
Rated power, net (hp per SAE J1349)	159.2 hp (118.7 kW) @ 1900 rpm
Max. torque, gross (SAE J1995)	556.9 ft.-lb. (755.0 Nm) @ 1400 rpm
Displacement	360.0 in. ³ (5.9 L)
Bore and stroke	3.9" x 4.9" (100 mm x 125 mm)
Starter	24 V, 8.0 hp (6.0 kW)
Battery	2 x 12 V, 150 AH
Alternator	24 V, 100 A
Air cleaner	Three-stage

Hydraulics

Main pumps	2 x 52.8 gpm (2 x 200 L/min.)
Pilot pump (gear design)	6.9 gpm (26.1 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	5134.6 psi (361 kg/cm ²)
Swing	3911.4 psi (275.0 kg/cm ²)
Pilot	583.2 psi (41.0 kg/cm ²)

Tires & Wheels (standard)

Type	Double
Tire specification	10.0 - 20 - 16 PR, OTR, TUBE
Rim specification	7.50 T x 20
Disc offset	155 mm

Swing Mechanism

Swing speed	0 - 11.4 rpm
Swing torque	46645.7 lbf.-ft. (6449.0 kgf-m)

Drive System

Travel speed [creep - low - high]	2.2 - 6.2 - 21.7 mph (3.5 - 10.0 - 35.0 km/h)
Traction force, max. (drawbar pull)	26014.5 lbf. (11800.0 kgf)
Max. grade (limited by engine lubrication)	70% (35°)

Environment

Sound level (2000/14/EC)	99 dB(A)
Cabin sound level (ISO 6396)	70 dB(A)

Refill Capacities

Fuel tank	77.9 gal. (295.0 L)
DEF tank	8.3 gal. (31.5 L)
Cooling system (radiator capacity)	8.6 gal. (32.4 L)
Engine oil (with filter)	7.1 gal. (27.0 L)
Swing drive	1.3 gal. (5.0 L)
Front axle	2.8 gal. (10.5 L)
Front hub (2x)	0.7 gal. (2.5 L)
Rear axle	3.7 gal. (14.0 L)
Rear hub (2x)	0.7 gal. (2.5 L)
Transmission	0.7 gal. (2.5 L)
Hydraulic system	76.6 gal. (290.0 L)
Hydraulic tank	32.8 gal. (124.0 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.

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 wheel excavators equipped with standard tires and the standard front as listed. Pictures of DEVELON wheel 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.

Technical Specifications

Hydraulic Cylinders

	Mono Boom (US20/30)	Articulated Boom (US40/50)
Boom main (2) bore x rod diameter x stroke	4.7" x 3.3" x 46.5" (120 mm x 85 mm x 1180 mm)	4.7" x 3.3" x 40.0" (120 mm x 85 mm x 1015 mm)
Boom articulated (1) bore x rod diameter x stroke	–	6.3" x 3.7" x 29.9" (160 mm x 95 mm x 760 mm)
Arm* (1) bore x rod diameter x stroke	4.9" x 3.5" x 57.9" (125 mm x 90 mm x 1470 mm)	
Bucket (STD) (1) bore x rod diameter x stroke	4.3" x 3.0" x 40.6" (110 mm x 75 mm x 1030 mm)	
Steering (1) bore x rod diameter x stroke	3.5" x 2.0" x 3.5" (90 mm x 50 mm x 90 mm)	
Chocking (2) bore x rod diameter x stroke	3.9" x 3.9" x 6.0" (100 mm x 100 mm x 153 mm)	
Dozer (2) bore x rod diameter x stroke	4.3" x 2.8" x 6.7" (110 mm x 70 mm x 170 mm)	
Outrigger (2 or 4) bore x rod diameter x stroke	5.1" x 3.1" x 15.6" (130 mm x 80 mm x 397 mm)	

*Does not include cushioning

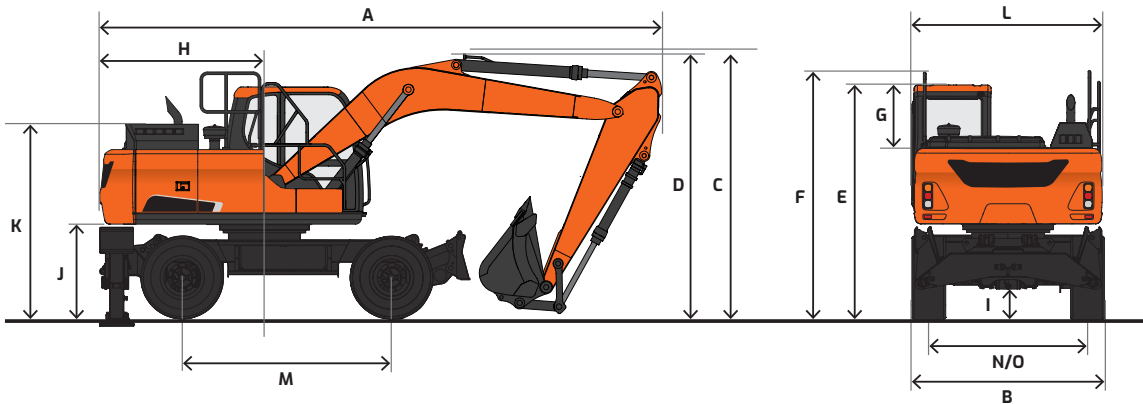
The piston rods and cylinder bodies are made of high-strength steel. A shock-absorbing mechanism is fitted in all cylinders to ensure shock-free operation and extended piston life.

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 wheel excavators equipped with standard tires and the standard front as listed. Pictures of DEVELON wheel 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.

Dimensions

		Mono Boom (U520)	Mono Boom (U530)	Articulated Boom (U540)	Articulated Boom (U550)
Boom length		17' 0.7" (5200 mm)		17' 10.2" (5440 mm) Lower: 6' 4.4" (1940 mm) Upper: 12' 6.4" (3820 mm)	
Arm length		8' 6.4" (2600 mm)		7' 6.6" (2300 mm)	
Bucket size (SAE)		1.05 yd³ (0.80 m³)		0.99 yd³ (0.76 m³)	
Shipping length	A	29' 1.0" (8865 mm)		30' 4.6" (9260 mm)	
Shipping width	B	8' 3.6" (2530 mm)			
Shipping height (hose)	C	9' 4.0" (2845 mm)		9' 4.2" (2850 mm)	
Shipping height (boom)	D	9' 0.3" (2750 mm)		8' 11.1" (2720 mm)	
Cabin height	E	10' 3.3" (3131 mm)			
Overall height to guardrail	F	10' 10.7" (3321 mm)			
Cabin height above house	G	2' 9.1" (840 mm)			
Tail swing radius	H	8' 6.8" (2612 mm)			
Car body clearance	I	1' 1.7" (348 mm)			
Counterweight clearance	J	4' 1.0" (1244 mm)			
Engine cover height	K	7' 6.2" (2291 mm)			
Upper structure width	L	8' 3.6" (2530 mm)			
Wheel base	M	8' 8.3" (2650 mm)			
Tread width	N	6' 4.5" (1944 mm)			
Tread width wide axle	O	6' 11.2" (2114 mm)			
Driving length*		28' 4" (8625 mm)		23' 6" (7160 mm)	
Driving height (boom)*		12' 10" (3920 mm)		13' 1" (3935 mm)	
Driving height (hose)*		12' 2" (3710 mm)		13' 3" (4035 mm)	
Blade width*		8' 3.6" (2530 mm)	–	8' 3.6" (2530 mm)	–
Undercarriage width*		16' 3.2" (4957 mm)	16' 4.7" (4996 mm)	16' 3.2" (4957 mm)	16' 4.7" (4996 mm)
Outrigger length (rear)*		3' 5.0" (1,041 mm)			
Outrigger length (front)*		–	3' 6.8" (1086 mm)	–	3' 6.8" (1086 mm)
Blade length*		3' 9.0" (1143 mm)	–	3' 9.0" (1143 mm)	–
Blade clearance (raised)*		1' 5.6" (448 mm)	–	1' 5.6" (448 mm)	–
Blade height*		2' 0.7" (628 mm)	–	2' 0.7" (628 mm)	–
Max. blade depth*		-5.3" (-135 mm)	–	-5.3" (-135 mm)	–
Outrigger width (ground)*		12' 1.5" (3696 mm)			
Outrigger width (max. depth)*		11' 8.5" (3569 mm)			
Max. outrigger depth*		-3.5" (-90 mm)			
Tire size*		10.0 – 20 – 16 PR			

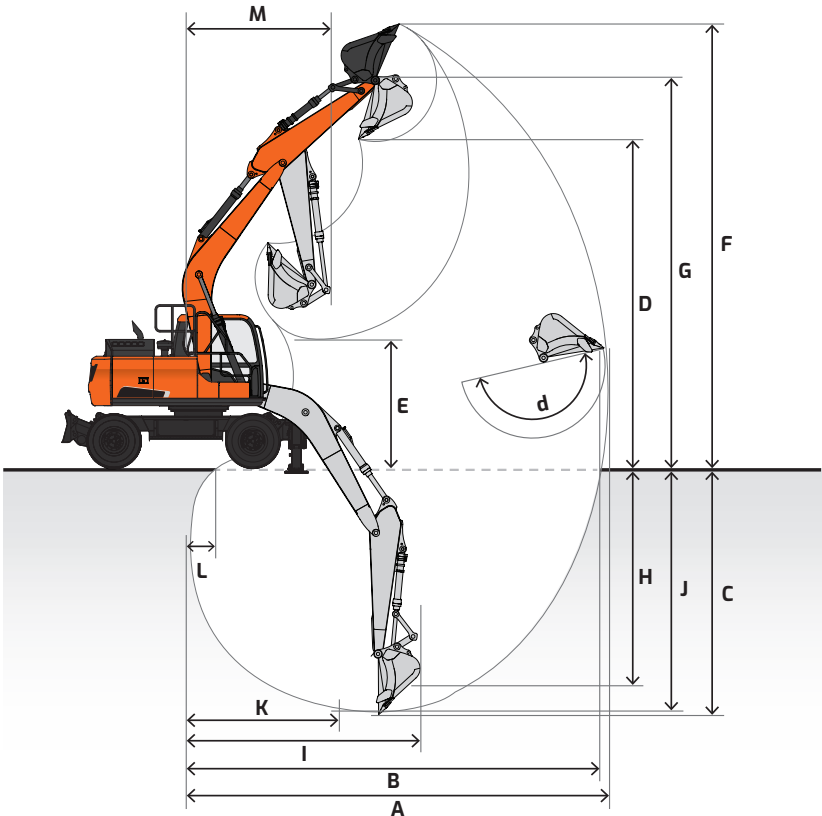
*Not shown on diagram



Working Range

		Mono Boom Dozer/Outriggers (2 R) (U520)		Outriggers (2 F/2 R) (U530)	Articulated Boom Dozer/Outriggers (2 R) (U540)		Outriggers (2 F/2 R) (U550)
Boom length		17' 0.7" (5200 mm)			17' 10.2" (5440 mm) Lower: 6' 4.4" (1940 mm) Upper: 12' 6.4" (3820 mm)		
Arm length		8' 6.4" (2600 mm)			7' 6.6" (2300 mm)		
Bucket size (SAE)		1.05 yd³ (0.80 m³)			0.99 yd³ (0.76 m³)		
Counterweight		7100 lb. (3220 kg)					
Max. digging reach	A	30' 4.4" (9255 mm)			31' 0.0" (9450 mm)		
Max. digging reach (ground)	B	29' 8.3" (9050 mm)			30' 4.4" (9255 mm)		
Max. digging depth	C	18' 9.4" (5725 mm)			18' 4.9" (5610 mm)		
Max. loading height	D	22' 2.3" (6765 mm)			25' 7.3" (7805 mm)		
Min. loading height	E	–					
Max. digging height	F	30' 11.7" (9440 mm)			34' 10.3" (10625 mm)		
Max. bucket pin height	G	26' 10.0" (8180 mm)			30' 2.6" (9210 mm)		
Max. vertical wall depth	H	15' 6.6" (4740 mm)			15' 2.3" (4630 mm)		
Max. radius vertical	I	20' 9.2" (6330 mm)			18' 7.6" (5680 mm)		
Max. depth to 8' line	J	18' 1.7" (5530 mm)			18' 0.7" (5505 mm)		
Min. radius to 8' line	K	9' 0.5" (2755 mm)			3' 0.6" (930 mm)		
Min. digging reach	L	15.4" (390 mm)			–		
Min. swing radius	M	10' 4.8" (3170 mm)			9' 9.9" (2995 mm)		
Bucket angle (DEG)	d	182°					
Digging force, bucket (PCSA)*	ISO	30423.8 lbf. (13800 kgf)					
Digging force, arm*		21605.3 lbf. (9800 kgf)			23369.0 lbf. (10600 kgf)		
Operating weight		46187 lb. (20950 kg)		47104 lb. (21366 kg)	46264 lb. (20985 kg)		47181 lb. (21401 kg)

*With power boost ON



Lifting Capacity

 Rating over front  Rating over side or 360°

DX190W-7K US20

Mono Boom: 17' 0.7" (5200 mm) | Arm: 8' 6.4" (2600 mm) | Counterweight: 7100 lb. (3220 kg) | Front Dozer & Rear Outriggers UP | Bucket: None | Unit: lb. (kg)

A B (ft. or m) A B (ft. or m)	5' (1.5 m)		10' (3.0 m)		15' (4.5 m)		20' (6.0 m)		25' (7.5 m)		Max. Reach		A
													
25' (7.5 m)											* 7670 (* 3480)	* 7670 (* 3480)	17.66' (5.38 m)
20' (6.0 m)							* 11250 (* 5100)	7600 (3450)			* 6830 (* 3100)	6350 (2880)	21.81' (6.65 m)
15' (4.5 m)					* 14920 (* 6770)	11490 (5210)	11320 (5130)	7400 (3360)			* 6580 (* 2990)	5240 (2380)	24.23' (7.39 m)
10' (3.0 m)					16960 (7690)	10620 (4810)	10910 (4950)	7030 (3190)	7750 (3520)	5000 (2270)	* 6680 (* 3030)	4720 (2140)	25.47' (7.76 m)
5' (1.5 m)					16030 (7270)	9810 (4450)	10490 (4760)	6660 (3020)	7580 (3440)	4840 (2200)	* 7110 (* 3220)	4540 (2060)	25.69' (7.83 m)
Ground Level			* 15500 (* 7030)	* 15500 (* 7030)	15540 (7050)	9390 (4260)	10210 (4630)	6400 (2900)	7470 (3390)	4740 (2150)	7340 (3330)	4660 (2110)	24.93' (7.60 m)
-5' (-1.5 m)	* 16420 (* 7450)	* 16420 (* 7450)	* 26280 (* 11920)	16860 (7650)	15430 (7000)	9290 (4210)	10120 (4590)	6320 (2870)			8170 (3710)	5170 (2350)	23.08' (7.03 m)
-10' (-3.0 m)			* 27260 (* 12360)	17250 (7820)	15630 (7090)	9470 (4290)	10330 (4690)	6510 (2950)			10240 (4640)	6460 (2930)	19.83' (6.04 m)

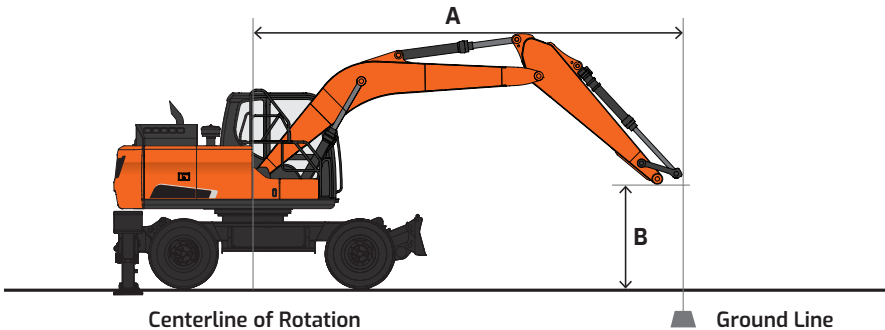
DX190W-7K US20

Mono Boom: 17' 0.7" (5200 mm) | Arm: 8' 6.4" (2600 mm) | Counterweight: 7100 lb. (3220 kg) | Front Dozer & Rear Outriggers DOWN | Bucket: None | Unit: lb. (kg)

A B (ft. or m) A B (ft. or m)	5' (1.5 m)		10' (3.0 m)		15' (4.5 m)		20' (6.0 m)		25' (7.5 m)		Max. Reach		A
													
25' (7.5 m)											* 7670 (* 3480)	* 7670 (* 3480)	17.66' (5.38 m)
20' (6.0 m)							* 11250 (* 5100)	* 11250 (* 5100)			* 6830 (* 3100)	* 6830 (* 3100)	21.81' (6.65 m)
15' (4.5 m)					* 14920 (* 6770)	* 14920 (* 6770)	* 13080 (* 5930)	11870 (5380)			* 6580 (* 2990)	* 6580 (* 2990)	24.23' (7.39 m)
10' (3.0 m)					* 18630 (* 8450)	17850 (8100)	* 14640 (* 6640)	11460 (5200)	* 10280 (* 4660)	8150 (3700)	* 6680 (* 3030)	* 6680 (* 3030)	25.47' (7.76 m)
5' (1.5 m)					* 21960 (* 9960)	16910 (7670)	* 16210 (* 7350)	11040 (5010)	* 12350 (* 5600)	7980 (3620)	* 7110 (* 3220)	* 7110 (* 3220)	25.69' (7.83 m)
Ground Level			* 15500 (* 7030)	* 15500 (* 7030)	* 23360 (* 10590)	16410 (7440)	* 17060 (* 7740)	10750 (4880)	* 10230 (* 4640)	7870 (3570)	* 7960 (* 3610)	7730 (3510)	24.93' (7.60 m)
-5' (-1.5 m)	* 16420 (* 7450)	* 16420 (* 7450)	* 26280 (* 11920)	* 26280 (* 11920)	* 22620 (* 10260)	16300 (7390)	* 16590 (* 7520)	10660 (4840)			* 9610 (* 4360)	8600 (3900)	23.08' (7.03 m)
-10' (-3.0 m)			* 27260 (* 12360)	* 27260 (* 12360)	* 19470 (* 8830)	16510 (7490)	* 13370 (* 6060)	10880 (4930)			* 13110 (* 5950)	10780 (4890)	19.83' (6.04 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.



Lifting Capacity

 Rating over front  Rating over side or 360°

DX190W-7K US30

Mono Boom: 17' 0.7" (5200 mm) | Arm: 8' 6.4" (2600 mm) | Counterweight: 7100 lb. (3220 kg) | Front & Rear Outriggers UP | Bucket: None | Unit: lb. (kg)

A B (ft. or m) (ft. or m)	5' (1.5 m)		10' (3.0 m)		15' (4.5 m)		20' (6.0 m)		25' (7.5 m)		Max. Reach		A
													
25' (7.5 m)											* 7670 (* 3480)	* 7670 (* 3480)	17.66' (5.38 m)
20' (6.0 m)							* 11250 (* 5100)	7640 (3460)			* 6830 (* 3100)	6380 (2890)	21.81' (6.65 m)
15' (4.5 m)					* 14920 (* 6770)	11540 (5230)	11280 (5110)	7440 (3370)			* 6580 (* 2990)	5270 (2390)	24.23' (7.39 m)
10' (3.0 m)					16900 (7660)	10670 (4840)	10870 (4930)	7070 (3210)	7720 (3500)	5030 (2280)	* 6680 (* 3030)	4740 (2150)	25.47' (7.76 m)
5' (1.5 m)					15970 (7240)	9870 (4480)	10450 (4740)	6690 (3040)	7550 (3430)	4870 (2210)	7090 (3210)	4570 (2070)	25.69' (7.83 m)
Ground Level			* 15500 (* 7030)	* 15500 (* 7030)	15470 (7020)	9440 (4280)	10170 (4610)	6430 (2920)	7440 (3380)	4770 (2160)	7310 (3320)	4690 (2130)	24.93' (7.60 m)
-5' (-1.5 m)	* 16420 (* 7450)	* 16420 (* 7450)	* 26280 (* 11920)	16950 (7690)	15370 (6970)	9340 (4240)	10080 (4570)	6360 (2880)			8140 (3690)	5200 (2360)	23.08' (7.03 m)
-10' (-3.0 m)			* 27260 (* 12360)	17340 (7860)	15570 (7060)	9520 (4320)	10290 (4670)	6550 (2970)			10200 (4630)	6490 (2950)	19.83' (6.04 m)

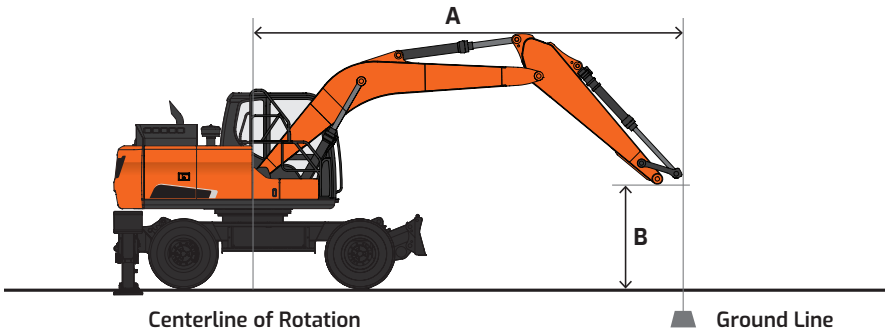
DX190W-7K US30

Mono Boom: 17' 0.7" (5200 mm) | Arm: 8' 6.4" (2600 mm) | Counterweight: 7100 lb. (3220 kg) | Front & Rear Outriggers DOWN | Bucket: None | Unit: lb. (kg)

A B (ft. or m) (ft. or m)	5' (1.5 m)		10' (3.0 m)		15' (4.5 m)		20' (6.0 m)		25' (7.5 m)		Max. Reach		A
													
25' (7.5 m)											* 7670 (* 3480)	* 7670 (* 3480)	17.66' (5.38 m)
20' (6.0 m)							* 11250 (* 5100)	* 11250 (* 5100)			* 6830 (* 3100)	* 6830 (* 3100)	21.81' (6.65 m)
15' (4.5 m)					* 14920 (* 6770)	* 14920 (* 6770)	* 13080 (* 5930)	* 13080 (* 5930)			* 6580 (* 2990)	* 6580 (* 2990)	24.23' (7.39 m)
10' (3.0 m)					* 18630 (* 8450)	* 18630 (* 8450)	* 14640 (* 6640)	13900 (6310)	* 10280 (* 4660)	9820 (4460)	* 6680 (* 3030)	* 6680 (* 3030)	25.47' (7.76 m)
5' (1.5 m)					* 21960 (* 9960)	21140 (9590)	* 16210 (* 7350)	13460 (6110)	* 12350 (* 5600)	9650 (4380)	* 7110 (* 3220)	* 7110 (* 3220)	25.69' (7.83 m)
Ground Level			* 15500 (* 7030)	* 15500 (* 7030)	* 23360 (* 10590)	20590 (9340)	* 17060 (* 7740)	13160 (5970)	* 10230 (* 4640)	9530 (4320)	* 7960 (* 3610)	* 7960 (* 3610)	24.93' (7.60 m)
-5' (-1.5 m)	* 16420 (* 7450)	* 16420 (* 7450)	* 26280 (* 11920)	* 26280 (* 11920)	* 22620 (* 10260)	20470 (9290)	* 16590 (* 7520)	13070 (5930)			* 9610 (* 4360)	* 9610 (* 4360)	23.08' (7.03 m)
-10' (-3.0 m)			* 27260 (* 12360)	* 27260 (* 12360)	* 19470 (* 8830)	* 19470 (* 8830)	* 13370 (* 6060)	13290 (6030)			* 13110 (* 5950)	* 13110 (* 5950)	19.83' (6.04 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.



Lifting Capacity

 Rating over front  Rating over side or 360°

DX190W-7K US40

2-PC Boom: 17' 10.2" (5440 mm) | Arm: 7' 6.6" (2300 mm) | Counterweight: 7100 lb. (3220 kg) | Front Dozer & Rear Outriggers UP | Bucket: None | Unit: lb. (kg)

A (ft. or m) B (ft. or m)	5' (1.5 m)	10' (3.0 m)	15' (4.5 m)	20' (6.0 m)	25' (7.5 m)	
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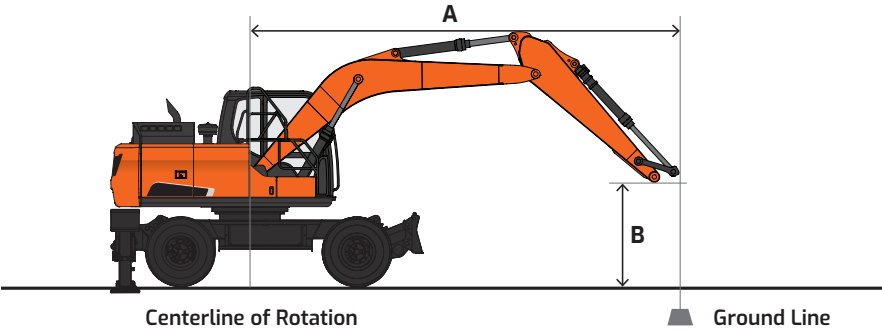
DX190W-7K US40

2-PC Boom: 17' 10.2" (5440 mm) | Arm: 7' 6.6" (2300 mm) | Counterweight: 7100 lb. (3220 kg) | Front Dozer & Rear Outriggers DOWN | Bucket: None | Unit: lb. (kg)

A (ft. or m) B (ft. or m)	5' (1.5 m)	10' (3.0 m)	15' (4.5 m)	20' (6.0 m)	25' (7.5 m)	
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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°

DX190W-7K US50

2-PC Boom: 17' 10.2" (5440 mm) | Arm: 7' 6.6" (2300 mm) | Counterweight: 7100 lb. (3220 kg) | Front & Rear Outriggers UP | Bucket: None | Unit: lb. (kg)

A B (ft. or m) (ft. or m)	5' (1.5 m) 	10' (3.0 m) 	15' (4.5 m) 	20' (6.0 m) 	25' (7.5 m) 	 	Max. Reach 	A	
30' (9.0 m)							* 11150 (* 5060)	* 11150 (* 5060)	11.37' (3.46 m)
25' (7.5 m)			* 12320 (* 5590)	11950 (5420)			* 7440 (* 3380)	* 7440 (* 3380)	18.59' (5.67 m)
20' (6.0 m)			* 12760 (* 5790)	11770 (5340)	11330 (5140)	7430 (3370)	* 6330 (* 2870)	5800 (2630)	22.55' (6.87 m)
15' (4.5 m)			* 15270 (* 6930)	11070 (5020)	11060 (5020)	7180 (3260)	7710 (3500)	4970 (2260)	24.91' (7.59 m)
10' (3.0 m)			16350 (7410)	10110 (4590)	10620 (4820)	6790 (3080)	7590 (3450)	4870 (2210)	26.11' (7.96 m)
5' (1.5 m)			15510 (7040)	9390 (4260)	10220 (4640)	6430 (2920)	7430 (3370)	4720 (2140)	26.33' (8.02 m)
Ground Level			15200 (6900)	9120 (4140)	10000 (4530)	6220 (2820)	7350 (3330)	4640 (2110)	25.59' (7.80 m)
-5' (-1.5 m)			15240 (6910)	9160 (4150)	9980 (4530)	6210 (2820)		* 7140 (* 3240)	23.79' (7.25 m)

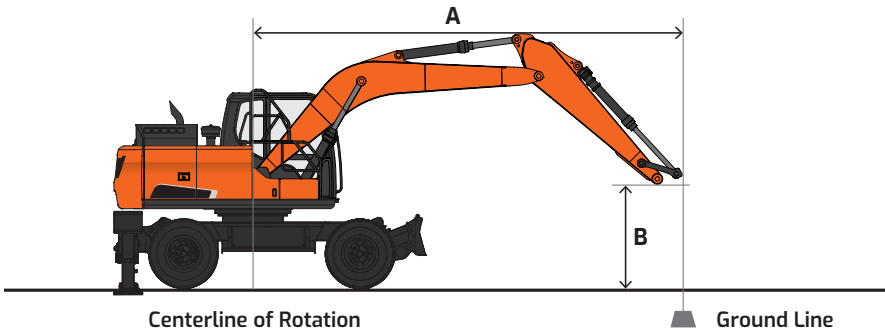
DX190W-7K US50

2-PC Boom: 17' 10.2" (5440 mm) | Arm: 7' 6.6" (2300 mm) | Counterweight: 7100 lb. (3220 kg) | Front & Rear Outriggers DOWN | Bucket: None | Unit: lb. (kg)

A B (ft. or m) (ft. or m)	5' (1.5 m) 	10' (3.0 m) 	15' (4.5 m) 	20' (6.0 m) 	25' (7.5 m) 	 Max. Reach 	A				
30' (9.0 m)						* 11150 (* 5060)	* 11150 (* 5060)	11.37' (3.46 m)			
25' (7.5 m)			* 12320 (* 5590)	* 12320 (* 5590)		* 7440 (* 3380)	* 7440 (* 3380)	18.59' (5.67 m)			
20' (6.0 m)			* 12760 (* 5790)	* 12760 (* 5790)	* 11940 (* 5420)	* 11940 (* 5420)	* 6330 (* 2870)	* 6330 (* 2870)	22.55' (6.87 m)		
15' (4.5 m)			* 15270 (* 6930)	* 15270 (* 6930)	* 12810 (* 5810)	* 12810 (* 5810)	* 8540 (* 3870)	* 8540 (* 3870)	* 5880 (* 2670)	* 5880 (* 2670)	24.91' (7.59 m)
10' (3.0 m)			* 18960 (* 8600)	* 18960 (* 8600)	* 14370 (* 6520)	13680 (6200)	* 12340 (* 5600)	9720 (4410)	* 5750 (* 2610)	* 5750 (* 2610)	26.11' (7.96 m)
5' (1.5 m)			* 21950 (* 9960)	20690 (9390)	* 15890 (* 7210)	13250 (6010)	* 12950 (* 5880)	9550 (4330)	* 5880 (* 2670)	* 5880 (* 2670)	26.33' (8.02 m)
Ground Level			* 22980 (* 10420)	20350 (9230)	* 16740 (* 7590)	13010 (5900)	* 13160 (* 5970)	9460 (4290)	* 6290 (* 2850)	* 6290 (* 2850)	25.59' (7.80 m)
-5' (-1.5 m)			* 22210 (* 10070)	20400 (9250)	* 16430 (* 7450)	13000 (5900)		* 7140 (* 3240)	* 7140 (* 3240)		23.79' (7.25 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, waste gate (WGT)	■
Cooled exhaust gas recirculation (CEGR)	■
Diesel oxidation catalyst (DOC)	■
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	■
Water separator with heater	■

Hydraulic

Mechatronics Design	■
Variable 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 (engine-driven with electric clutch)	■
Axial piston swing motor	■
Spring-applied hydraulic release brake (swing motor)	■
Axial piston travel motor (high/low, auto)	■
Auxiliary hydraulics, one-way piping	■
Auxiliary hydraulics, tilt/rotate piping	■
Adjustable auxiliary flow & pressure, 10 presets	■
Boom & arm lock valves	●
Overload warning device (OWD)	●
Load Isolation System (Ride Control)	■

Electrical

System voltage – 24 V	■
Alternator – 24 V, 100 A	■
2 x 12 V batteries, 150 AH reserve capacity, 950 CCA	■
Blade-type fuse panel	■
Main circuit breaker	■
Lights, work (LED): machine (2), boom (2)	■
Lights, work (LED): 6 cab top, front (4), rear (2)	●
Lights, work (LED): 4 cab top, front (2), rear (2)	●
Rotating beacon	■
Hour meter	■
Engine restart prevention system	■
Rearview camera	■
Smart around view camera, 360°	●
Radar	●
Laptop service port	■
Self-diagnostics system	■
Smart Key (remote ignition key)	■
MY DEVELON (telematics)	■

Cabin

Steel, all-weather & sound-suppressed	■
ROPS (ISO 12117-2:2008)	■
Viscous mount with spring reinforcement	■
Front window with panto wiper/washer	■
Tinted safety glass	■
Skylight top hatch with sun screen	■
Visor, front window skylight & rear window	■
Pull-up type top front window	■
Removable lower front window with storage behind seat	■
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	
Foot rest	■
Storage for operator's manuals	■
Rearview mirrors	■
Fully automatic HVAC with ambient temperature sensor	■
12" DEVELON Smart Touch display monitor	■
Digital Bluetooth® & MP3 radio with cell phone integration	■
Speakers (2)	■
Antenna, roof-mounted	■
Emergency breakout tool	■
Hot/cold beverage compartment	■
Power socket, 12 V & 24 V	■
Cup holder	■
Interior light	■
Coat hanger	■

Display Monitor & Warnings

Indicators	■
- Work modes (P+, P, S, E)	
- User/Service menu	
Gauges	■
- Fuel level	
- DEF level	
- Engine coolant temperature	
- Hydraulic oil temperature	
- Engine rpm	
- Battery voltage	
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	
Swing alarm	■
Travel alarm	■
Buzzer	■
- Engine oil pressure	
- Coolant temperature	

Controls

Steering wheel	■
Accelerator pedal	■
Brake pedal	■
Swing lock mechanism for traveling	■
Fine swing control	■
Joystick controls	■
Pattern control change valve (SAE, ISO BHL)	■
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	■
Switches & indicators, steering column	■
- Steering column postional lever	
- Work/travel selector switch	
- Turn signal control lever	
- Hazard warning switch	
- Turn signal/hazard light indicators	
- Wiper & washer control	
- Horn button	
- High/low beam control	
Switches, console-mounted	■
- Starter button switch	
- Travel speed selector	
- Work light	
- Auxiliary mode switch	
Emergency stop switch	■
Power modes (P+, P, S, E)	■
Work modes (digging, lifting, breaker, shear)	■
Jog dial display control	■
Wiper control panel	■
Audio control panel	■
Joystick steering	■

Undercarriage

Tire size – 10.0 – 20 – 16 ply rating	■
Transmission: 2-speed power-shift with creep	■
Planetary drive front & rear axle	■
Oscillating (±8°) front axle, lockable	■
Steering front axle	■
Dozer	■
Outriggers, front (in place of dozer)	●
Outriggers, rear	■
Toolbox	■

Other

Centralized lubrication	■
- Boom	
- Swing	
Emergency steering	■
Handrails & service platforms	■
Skid-resistant steps & service platforms	■
Wheel chocks	■
Manuals	■
- Operation & Maintenance	
- AEM Safety Manual	
MY DEVELON 3-year subscription (telematics)	■
Vandalism protection	■
- Lockable panels	
- Lockable fluid fill points	
- Anti-theft protection (password)	
- Window cover mount	
Breaker filter	●
Trailer hitch-ready	●

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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DX190W-7K Wheel Excavator Spec Sheet
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