



DX190W TECHNICAL DATA





GENERAL SPECIFICATIONS

ITEMS		UNIT	STANDARD
ENGINE	MODEL		Doosan DL06 Diesel, Tier III Certified
	NUMBER OF CYLINDERS		6
	RATED FLYWHEEL POWER (hp PER SAE J1995) GROSS	hp / rpm	163 / 1,900
		kW / rpm	121 / 1,900
	RATED FLYWHEEL POWER (hp PER SAE J1349) NET	hp / rpm	155 / 1,900
		kW / rpm	116 / 1,900
	MAXIMUM TORQUE (GROSS) (SAE J1995)	ft. lb. / rpm	521 / 1,400
		Nm / rpm	706 / 1,400
	PISTON DISPLACEMENT	in. ³	359
		cc	5,890
	BORE AND STROKE	in. x in.	3.9 x 4.9
		mm x mm	100 x 125
STARTER	V / kW	24 V, 4.5 kW	
BATTERIES	V / AH	2 x 12 V x 100 AH	
AIR CLEANER		Double element with auto dust evacuation.	
MAIN PUMPS – 2 VARIABLE DISPLACEMENT AXIAL PISTON PUMPS MAX FLOW	US gpm	2 x 52.8	
	L/min.	2 x 200	
PILOT PUMP (GEAR DESIGN)	MAXIMUM FLOW	US gpm	6.9
		L/min.	26
	RELIEF PRESSURE	psi	569
		bar	39
MAXIMUM SYSTEM PRESSURE	BOOM/ARM/BUCKET (NORMAL MODE)	psi	4,694
		bar	324
	BOOM/ARM/BUCKET (POWER MODE)	psi	4,978
		bar	343
	TRAVEL	psi	4,978
		bar	343
	SWING	psi	3,840
		bar	265
ENVIRONMENT	SOUND LEVEL (2000/14/EC)	dB(A)	101
	CABIN SOUND LEVEL (ISO 6396)	dB(A)	74
SWING MECHANISM	SWING SPEED	rpm	0 - 10.9
DRIVE SYSTEM	TRAVEL SPEED (FAST/SLOW)	mph	22.4
		km / h.	36
	DRAWBAR PULL	lb.	24,416
		kg	11,075
	MAXIMUM GRADE	%	70
		°	35

DX190W

ITEMS		UNIT	STANDARD
REFILL CAPACITIES	FUEL TANK	US gal.	82
		L	310
	COOLING SYSTEM (RADIATOR CAPACITY)	qt.	25.4
		L	24
	ENGINE OIL	qt.	26.4
		L	25
	SWING DRIVE	qt.	4
		L	3.8
	FRONT AXLE	qt.	2.6
		L	2.5
	REAR AXLE	US gal.	2.6
		L	2.5
	TRANSMISSION	US gal.	2.6
		L	2.5
	HYDRAULIC SYSTEM	US gal.	54.2
		L	205
	HYDRAULIC TANK	US gal.	30.6
		L	116

WEIGHT

BOOM	17' 1" (5,200 mm) One-Piece or 12' 6" + 6' 4" (3,820 mm + 1,940 mm) Two-Piece		
ARM	8' 6" (2,600 mm) Arm for One-Piece Boom or 7' 7" (2,300 mm) Arm for Two-Piece Boom		
BUCKET	1.05 yd. ³ (0.8 m ³)		
UNDERCARRIAGE TYPE		OPERATING WEIGHT (ONE-PIECE BOOM)	OPERATING WEIGHT (TWO-PIECE BOOM)
FRONT ATTACHMENT	REAR ATTACHMENT		
CRADLE	DOZER	39,176 lb. (17,770 kg)	40,278 lb. (18,270 kg)
CRADLE	OUTRIGGER	39,507 lb. (17,920 kg)	40,587 lb. (18,410 kg)
DOZER	OUTRIGGER	41,557 lb. (18,850 kg)	42,615 lb. (19,330 kg)
OUTRIGGER	DOZER	41,689 lb. (18,910 kg)	42,748 lb. (19,390 kg)
OUTRIGGER	OUTRIGGER	41,998 lb. (19,050 kg)	43,056 lb. (19,530 kg)



HYDRAULIC CYLINDERS

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 extend piston life.

ONE-PIECE BOOM		
CYLINDERS	QUANTITY	BORE x ROD DIAMETER x STROKE
BOOM	2	4.7" x 3.3" x 3' 11" (120 x 85 x 1,195 mm)
ARM (SHORT)	1	4.9" x 3.5" x 4' 10" (125 x 90 x 1,470 mm)
BUCKET	1	4.5" x 3.1" x 3' 4" (115 x 80 x 1,025 mm)
TWO-PIECE BOOM		
CYLINDERS	QUANTITY	BORE x ROD DIAMETER x STROKE
BOOM	2	4.7" x 3.3" x 3' 5" (120 x 85 x 1,030 mm)
TWO-PIECE BOOM	1	6.3" x 3.7" x 2' 6" (160 x 95 x 760 mm)
ARM (LONG)	1	4.9" x 3.5" x 4' 10" (125 x 90 x 1,470 mm)
BUCKET	1	4.5" x 3.1" x 3' 4" (115 x 80 x 1,025 mm)

BUCKET

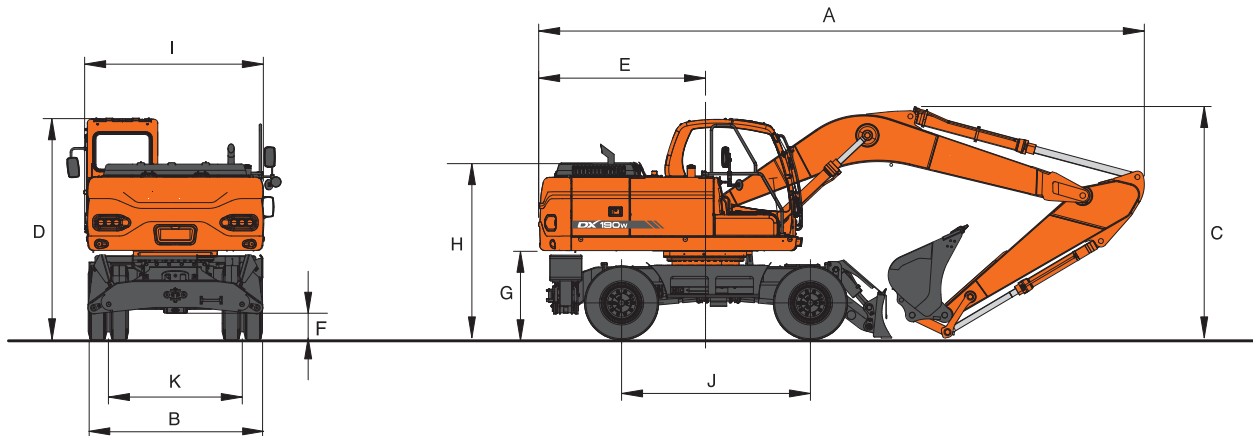
CAPACITY		WIDTH		WEIGHT	RECOMMENDATIONS				
					17' 1" (5,200 mm) ONE-PIECE BOOM			17' 7" (5,360 mm) TWO-PIECE BOOM	
SAE, HEAPED	CECE, HEAPED	WITHOUT SIDE CUTTERS	WITH SIDE CUTTERS		7' 3" (2,200 mm) ARM	8' 6" (2,600 mm) ARM	10' 2" (3,100 mm) ARM	7' 7" (2,300 mm) ARM	8' 6" (2,600 mm) ARM
0.5 yd. ³ (0.38 m ³)	0.46 yd. ³ (0.35 m ³)	23.8" (604 mm)	25.2" (640 mm)	972 lb. (441 kg)	A	A	A	A	A
0.59 yd. ³ (0.45 m ³)	0.54 yd. ³ (0.41 m ³)	28.6" (727 mm)	30.5" (775 mm)	1,025 lb. (465 kg)	A	A	A	A	A
0.75 yd. ³ (0.57 m ³)	0.67 yd. ³ (0.51 m ³)	34.1" (865 mm)	35.9" (913 mm)	1,146 lb. (520 kg)	A	A	B	A	A
0.92 yd. ³ (0.7 m ³)	0.81 yd. ³ (0.62 m ³)	40" (1,015 mm)	41.9" (1,063 mm)	1,250 lb. (567 kg)	A	B	C	A	A
1 yd. ³ (0.76 m ³)	0.88 yd. ³ (0.67 m ³)	42.5" (1,079 mm)	44.8" (1,127 mm)	1,327 lb. (602 kg)	B	B	C	A	B
1.05 yd. ³ (0.8 m ³)	0.92 yd. ³ (0.70 m ³)	44.2" (1,123 mm)	46.1" (1,171 mm)	1,358 lb. (616 kg)	B	C	-	B	C
1.22 yd. ³ (0.93 m ³)	1.06 yd. ³ (0.81 m ³)	49.9" (1,267 mm)	51.8" (1,315 mm)	1,332 lb. (664 kg)	C	-	-	C	-

A. Suitable for materials with density of 3,370 lb./yd.³ (2,000 kg•m³) or less

B. Suitable for materials with density of 2,700 lb./yd.³ (1,600 kg•m³) or less

C. Suitable for materials with density of 1,850 lb./yd.³ (1,100 kg•m³) or less

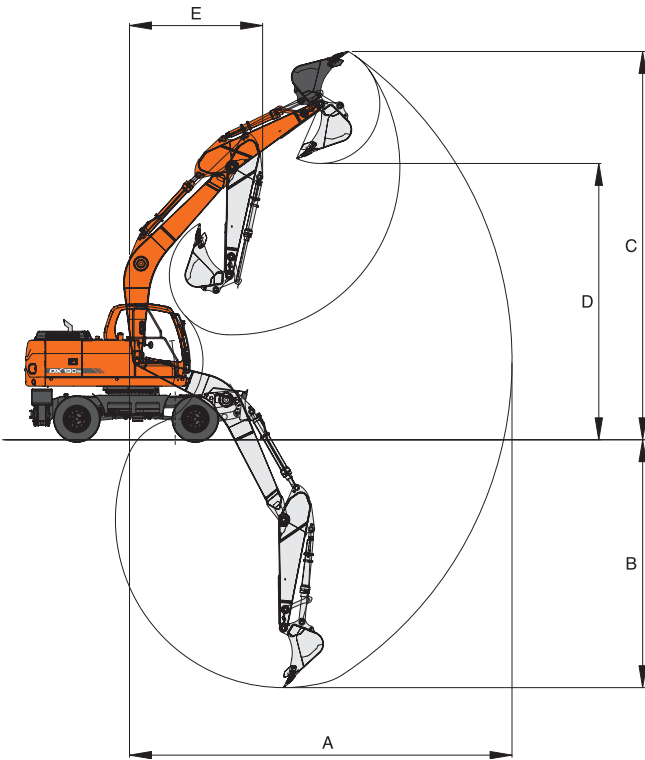
DIMENSIONS



ONE-PIECE BOOM				
BOOM TYPE		17' 1" (5,200 mm)		
ARM TYPE		7' 3" (2,200 mm)	8' 6" (2,600 mm)	10' 2" (3,100 mm)
SHIPPING LENGTH	A	28' 7" (8,715 mm)	28' 5" (8,659 mm)	27' 11" (8,507 mm)
SHIPPING WIDTH	B	8' 2" (2,496 mm)	←	←
SHIPPING HEIGHT (BOOM)	C	10' 6" (3,212 mm)	10' 10" (3,310 mm)	12' 5" (3,772 mm)
HEIGHT OVER CAB.	D	10' 3" (3,135 mm)	←	←
C/WEIGHT SWING CLEARANCE	E	8' (2,450 mm)	←	←
GROUND CLEARANCE	F	1' 2" (350 mm)	←	←
COUNTER WEIGHT CLEARANCE	G	4' 1" (1,249 mm)	←	←
ENGINE COVER HEIGHT	H	8' 4" (2,530 mm)	←	←
UPPER HOUSING WIDTH	I	8' 2" (2,494 mm)	←	←
WHEEL BASE	J	8' 10" (2,700 mm)	←	←
TREAD WIDTH	K	6' 5" (1,944 mm)	←	←

TWO-PIECE BOOM			
BOOM TYPE		17' 7" (5,360 mm)	
ARM TYPE		7' 7" (2,300 mm)	8' 6" (2,600 mm)
SHIPPING LENGTH	A	29' 1" (8,860 mm)	28' 3" (8,610 mm)
SHIPPING WIDTH	B	8' 2" (2,496 mm)	←
SHIPPING HEIGHT (BOOM)	C	10' 4" (3,140 mm)	11' (3,360 mm)
HEIGHT OVER CAB.	D	10' 3" (3,135 mm)	←
C/WEIGHT SWING CLEARANCE	E	8' (2,450 mm)	←
GROUND CLEARANCE	F	1' 2" (350 mm)	←
COUNTER WEIGHT CLEARANCE	G	4' 1" (1,249 mm)	←
ENGINE COVER HEIGHT	H	8' 4" (2,530 mm)	←
UPPER HOUSING WIDTH	I	8' 2" (2,494 mm)	←
WHEEL BASE	J	8' 10" (2,700 mm)	←
TREAD WIDTH	K	6' 5" (1,944 mm)	←

WORKING RANGE



ONE-PIECE BOOM				
BOOM TYPE		17' 1" (5,200 mm)		
ARM TYPE		7' 3" (2,200 mm)	8' 6" (2,600 mm)	10' 2" (3,100 mm)
MAX. DIGGING RADIUS	A	29' (8,830 mm)	30' 2" (9,200 mm)	31' 4" (9,560 mm)
MAX. DIGGING DEPTH	B	18' 3" (5,565 mm)	19' 7" (5,965 mm)	21' 3" (6,465 mm)
MAX. DIGGING HEIGHT	C	29' 11" (9,115 mm)	30' 8" (9,340 mm)	30' 5" (9,270 mm)
MAX. DUMP HEIGHT	D	21' 1" (6,420 mm)	21' 10" (6,650 mm)	21' 10" (6,645 mm)
MIN. SWING RADIUS	E	10' 6" (3,195 mm)	10' 6" (3,200 mm)	10' 5" (3,185 mm)

TWO-PIECE BOOM				
BOOM TYPE		17' 7" (5,360 mm)		
ARM TYPE		7' 7" (2,300 mm)	8' 6" (2,600 mm)	
MAX. DIGGING RADIUS	A	30' 3" (9,235 mm)	31' 3" (9,530 mm)	
MAX. DIGGING DEPTH	B	18' 4" (5,600 mm)	19' 4" (5,900 mm)	
MAX. DIGGING HEIGHT	C	33' 8" (10,260 mm)	34' 6" (10,510 mm)	
MAX. DUMP HEIGHT	D	24' 4" (7,415 mm)	25' 2" (7,660 mm)	
MIN. SWING RADIUS	E	9' 9" (2,965 mm)	10' 4" (3,160 mm)	

DIGGING FORCE (ISO)

BUCKET (PCSA)	0.5 yd. ³ (0.38 m ³)	0.59 yd. ³ (0.45 m ³)	0.75 yd. ³ (0.57 m ³)	0.92 yd. ³ (0.7 m ³)	1 yd. ³ (0.76 m ³)	1.05 yd. ³ (0.8 m ³)	1.22 yd. ³ (0.93 m ³)
DIGGING FORCE	31,305 lbf.	31,305 lbf.	31,305 lbf.	31,305 lbf.	31,305 lbf.	31,305 lbf.	31,305 lbf.
	14,200 kgf.	14,200 kgf.	14,200 kgf.	14,200 kgf.	14,200 kgf.	14,200 kgf.	14,200 kgf.
	139.25 kN	139.25 kN	139.25 kN	139.25 kN	139.25 kN	139.25 kN	139.25 kN

ARM	7' 3" (2,200 mm)	7' 7" (2,300 mm)	8' 6" (2,600 mm)	10' 2" (3,100 mm)
DIGGING FORCE	23,810 lbf.	21,816 lbf.	20,503 lbf.	18,739 lbf.
	10,800 kgf.	9,900 kgf.	9,300 kgf.	8,500 kgf.
	105.91 kN	97.08 kN	91.20 kN	83.36 kN



STANDARD EQUIPMENT

ENGINE:

DOOSAN DL06:

- Turbo Charged and Aftercooled

Electronically Controlled Common Rail Direct Injected

359 cu.in., 6 Cylinder

155 SAE Net Flywheel Horsepower @ 1,900 rpm

Auto Idle System

Equipped with the Fuel Pre-Filter with Water Separator & Built in Priming Pump

Radiator Reserve Tank

Large Capacity Double Element Air Cleaner with Evacuator

Electronic Engine Speed Control

Engine Overheat and Low Oil Pressure Prevention System

HYDRAULIC SYSTEM:

Pilot Operated Control Valves, (9) Spools

Pilot Operated (2) Control Valves

Main Pump, Bent Axis Axial Piston Type, Pressure Setting 4,978 psi

Pilot Circuit, Gear Type Pump

Swing Motor:

- Axial Piston Type

Swing Speed Control up to 10.9 rpm

Swing Safety Lock - Manual Pin Locking

Spring Set, Hydraulic-released Brakes

Travel Motors, Hydrostatic Drive

Automatic Travel Speed Control

Travel Speed Up to 22.4 mph

Cross Sensing Pump Control for Fuel Saving

Two Operating Modes, Two Power Modes

Button Control of Flow in Auxiliary Equipment Circuits

Computer-Aided Pump Power Control

e-EPOS (Electronic Power Optimizing System) Controller

Single Acting Breaker Piping

CAB:

ROPS Approved

Steel, All Weather Sound Suppressed Type

Fully Automatically Controlled Air Conditioner with Heat

Multi-function Color LCD Monitor Panel

Cigarette Lighter with Ashtray

Door Locks

Front Windshield Wiper with Washer

Radio:

- AM/FM Stereo with Cassette

- Remote Radio On/Off Switch, Control Volume, Channel Selection

Switches:

- Ram Lock Switch

- Light Switch

- Work Light Switch

- Breaker, Power-Up, Shear Switch

- Parking Brake Switch

- Outrigger Selector Switch

Glass Antenna

Safety Glass, Tinted

Safety Lock Lever

Seat:

- Suspension with Seat Belt (2" Wide)

- Reclining, Height Adjustable

- Adjustable Arm Rests

- Sliding Control Console

- Weight Adjustment Knob

Skylight

Pull Up Type Front Window

Removable Lower Front Window

Sliding Side Windows

Front Window Air Defroster

Steering Console

Tilt and Telescopic Steering Wheel

Accelerator Pedal

Brake Pedal

Emergency Breakout Tool

Lunch Box with Hot & Cool Air

12V Power Socket

Joystick Lever with 3 Switches

Dozer Blade Work Lever

Cup Holder

Room Light

Serial Communication Port for Laptop PC Interface (DMS, Edoctor)

Viscous Cab Mounts

ELECTRICAL:

Alternator:

- 60 Amp

Batteries:

- (2) 12 V, 100 Amp Hrs 750 CCA ea

Starter:

- 24V, 4.5 kW

Lights:

- Front: (2) Machine, (2) Boom

Electric Horn

Hour Meter

Alarm Buzzer for:

- Engine Oil Pressure
- Coolant Temperature

Electronic Monitor for:

- Engine Coolant Temperature Gauge
- Fuel Gauge
- Hydraulic Oil Temperature Gauge

Multi-Function Display for:

- Engine rpm
- Battery Voltage
- Front and Rear Hydraulic Pump Pressure
- Hydraulic Oil Overheating Warning
- Fuel Shortage Warning
- Air Cleaner Clogging Warning
- Pilot Filter Clogging Warning
- Return Filter Clogging Warning
- Brake Oil Pressure Warning
- Quick Clamp Release Warning
- Digital Clock

Operating Modes for:

- Power Mode Switches
- Flow Rate Control
- Auto Idle Select Button
- 4 Display Selection Buttons
- Trenching Mode Selector Button

UNDERCARRIAGE:

10.00 x 20 (14PR) Dual Wheels

(2) Outriggers - Front

(1) Dozer Blade - Rear

Transmission, 2-speed, Power Shift

Front & Rear Axle, Floating Planetary Drive

OTHER STANDARD EQUIPMENT:

Counterweight:

- 7,050 lb. (3,200 kg)

Sealed Pins, Boom, Arm and Bucket Linkages

Swing Mechanism, Internal Gear and Pinion

Centralized Lube Points

Large Handrail

Punched Metal Anti-Slip Plates

Ultra-hard Wear-Resistant Disc at the Bucket Pivot

Engine Restart Prevention System

Manuals:

- Parts and Operator's

GPS with 1 Year Subscription



OPTIONAL EQUIPMENT

HYDRAULIC KITS – FACTORY INSTALLED

Single Acting Breaker Kit
Double Acting Thumb Kit
DX190W Lock Valve

ADDITIONAL OPTIONS – FACTORY INSTALLED

Air Suspension Seat
CD Player
Work Lights (2 Front Mounted on Cab)
Work Lights (4 Front 2 Rear Mounted on Cab)
Rotating Beacon (Mounted on Cab)
24V, 80A Alternator
Swing Alarm
Electric Fuel Supply Pump
Rain Shield
Falling Objects Guard Assembly Kit

DOOSAN COUPLERS – DEALER INSTALLED

Hydraulic Quick Coupler
Manual Quick Coupler

DOOSAN THUMBS – DEALER INSTALLED

Hydraulic Pro Link Thumb
Mechanical Thumb


HYDRAULIC KITS – DEALER INSTALLED

Breaker Kit (B) Single Acting HKX
Thumb Kit (T) Double Acting HKX Piping Ends at Boom Tip
Breaker / Thumb Kit (BT) Single & Double Acting HKX

ADDITIONAL OPTIONS – DEALER INSTALLED

3" Seat Belt
Vandalism Covers

NOTES

A large grid of graph paper for taking notes, consisting of 20 columns and 30 rows of small squares.



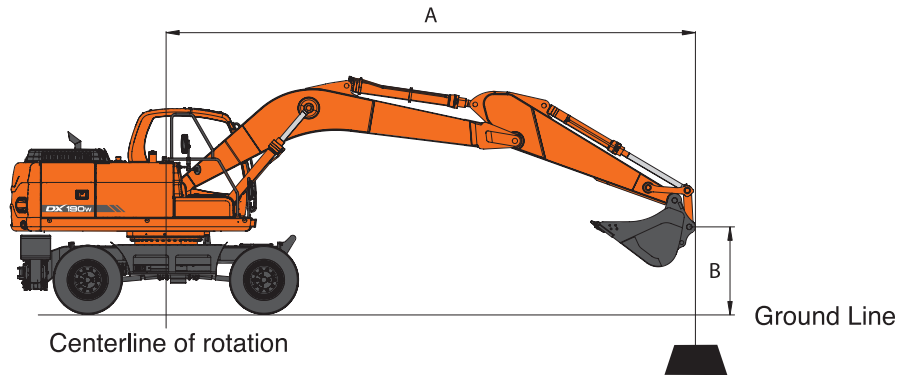
LIFTING CAPACITY (ONE-PIECE BOOM)

Boom: 17'1" (5,200 mm)

Arm: 7'3" (2,200 mm)

Counterweight: 3.52 ton (3.2 metric ton)

Front OT Down + Rear Dozer Down



Feet Unit: 1,000 lb.

B (ft.) \ A (ft.)	10		15		20		MAX. REACH		A (ft.)
25			11.29*	11.29*			10.94*	10.94*	15.14
20							9.47*	9.47*	19.93
15			14.83*	14.83*	12.89*	10.09	9.08*	8.21	22.65
10			18.00*	15.12	14.08*	9.75	9.22*	7.34	24.03
5			20.66*	14.33	15.28*	9.4	9.87*	7.08	24.30
0 (GROUND)			21.45*	13.95	15.74*	9.18	11.19*	7.35	23.50
-5	28.15*	28.15*	20.22*	13.92	14.72*	9.17	13.11*	8.34	21.49
-10	22.53*	22.53*	16.33*	14.23			12.62*	11.04	17.89

Metric Unit: 1,000 kg

B (m) \ A (m)	2		3		4		5		6		7		MAX. REACH		A (m)
7							5.79*	5.79*					4.60*	4.60*	5.31
6							5.80*	5.80*	5.07*	4.75			4.28*	4.28*	6.14
5							6.16*	6.16*	5.78*	4.73			4.14*	3.91	6.72
4					8.05*	8.05*	6.79*	6.18	6.08*	4.64	4.93*	3.62	4.12*	3.53	7.11
3					9.47*	8.45	7.54*	5.96	6.48*	4.52	5.85*	3.58	4.19*	3.32	7.33
2					10.63*	8.09	8.23*	5.77	6.88*	4.41	6.03*	3.52	4.36*	3.22	7.42
1					11.19*	7.88	8.69*	5.62	7.17*	4.32	6.15*	3.46	4.64*	3.23	7.36
0 (GROUND)					11.19*	7.8	8.84*	5.54	7.26*	4.26	6.09*	3.44	5.07*	3.33	7.16
-1			9.91*	9.91*	10.77*	7.79	8.64*	5.51	7.08*	4.24			5.77*	3.58	6.81
-2	10.43*	10.43*	12.31*	12.31*	9.93*	7.85	8.03*	5.54	6.42*	4.28			5.93*	4.04	6.27
-3	12.68*	12.68*	10.43*	10.43*	8.50*	7.97	6.75*	5.64					5.74*	4.94	5.50
-4			7.41*	7.41*	5.84*	5.84*							5.05*	5.05*	4.35

1. LOAD POINT IS THE END OF THE ARM.

2. CAPACITIES MARKED WITH AN ASTERISK (*) ARE LIMITED BY HYDRAULIC CAPACITIES.

3. LIFT CAPACITIES SHOWN DO NOT EXCEED 75% OF MINIMUM TIPPING LOADS OR 87% OF HYDRAULIC CAPACITIES.

Rating Over Front

Rating Over Side or 360 degree

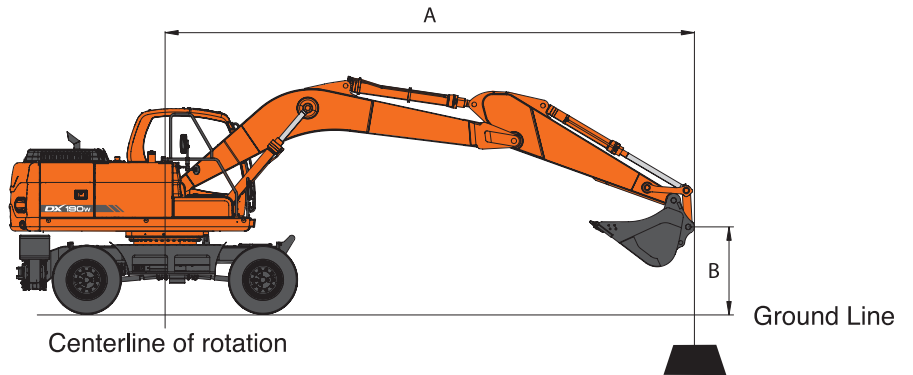
DX190W

Boom: 17'1" (5,200 mm)

Arm: 7'3" (2,200 mm)

Counterweight: 3.52 ton (3.2 metric ton)

Front OT Down + Rear OT Down



Feet Unit: 1,000 lb.

B (ft.) \ A (ft.)	10		15		20		MAX. REACH		
									A (ft.)
25			11.28*	11.28*			10.94*	10.94*	15.14
20							9.47*	8.54	19.93
15			14.83*	13.21	12.90*	8.4	9.08*	6.83	22.65
10			18.00*	12.35	14.08*	8.08	9.23*	6.09	24.03
5			20.67*	11.61	15.28*	7.74	9.87*	5.86	24.30
0 (GROUND)			21.45*	11.25	15.74*	7.53	11.19*	6.06	23.50
-5	28.15*	21.57	20.23*	11.23	14.72*	7.53	13.11*	6.87	21.49
-10	22.53*	22.08	16.34*	11.51			12.63*	9.05	17.89

Metric Unit: 1,000 kg

B (m) \ A (m)	2		3		4		5		6		7		MAX. REACH		
															A (m)
7							5.79*	5.38					4.59*	4.59*	5.31
6							5.80*	5.38	5.07*	3.96			4.28*	3.8	6.14
5							6.16*	5.27	5.78*	3.94			4.14*	3.25	6.72
4					8.05*	7.21	6.79*	5.1	6.08*	3.86	4.93*	3.01	4.12*	2.94	7.11
3					9.47*	6.81	7.54*	4.9	6.48*	3.75	5.85*	2.97	4.19*	2.75	7.33
2					10.63*	6.48	8.23*	4.71	6.88*	3.64	6.04*	2.91	4.36*	2.67	7.42
1					11.19*	6.29	8.69*	4.58	7.17*	3.55	6.15*	2.86	4.64*	2.67	7.36
0 (GROUND)					11.19*	6.21	8.84*	4.5	7.26*	3.49	6.09*	2.83	5.08*	2.75	7.16
-1			9.91*	9.91*	10.77*	6.21	8.64*	4.47	7.08*	3.48			5.77*	2.95	6.81
-2	10.43*	10.43*	12.31*	10.12	9.93*	6.26	8.03*	4.5	6.43*	3.51			5.93*	3.33	6.27
-3	12.68*	12.68*	10.43*	10.3	8.50*	6.37	6.75*	4.6					5.74*	4.05	5.50
-4			7.41*	7.41*	5.84*	5.84*							5.05*	5.05*	4.35

1. LOAD POINT IS THE END OF THE ARM.

2. CAPACITIES MARKED WITH AN ASTERISK (*) ARE LIMITED BY HYDRAULIC CAPACITIES.

3. LIFT CAPACITIES SHOWN DO NOT EXCEED 75% OF MINIMUM TIPPING LOADS OR 87% OF HYDRAULIC CAPACITIES.

Rating Over Front

Rating Over Side or 360 degree



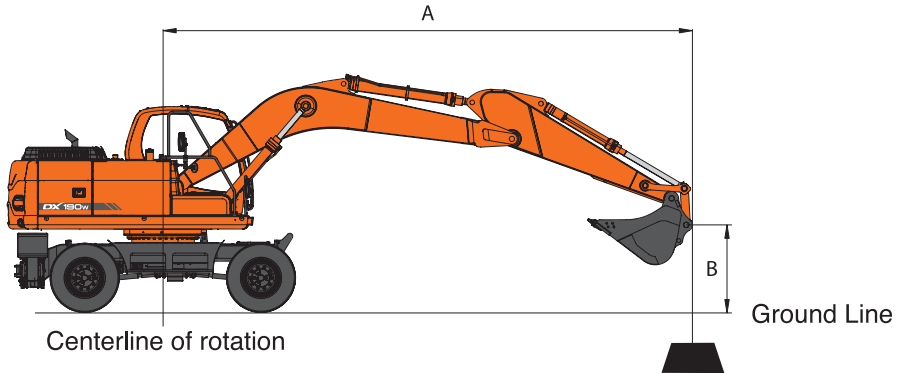
LIFTING CAPACITY (ONE-PIECE BOOM)

Boom: 17'1" (5,200 mm)

Arm: 8'6" (2,600 mm)

Counterweight: 3.52 ton (3.2 metric ton)

Front OT Down + Rear Dozer Down



Feet Unit: 1,000 lb.

B (ft.) \ A (ft.)	5		10		15		20		25		MAX. REACH		A (ft.)
25											7.38*	7.38*	17.05
20							9.79*	9.79*			6.49*	6.49*	21.42
15					13.63*	13.63*	12.05*	10.1			6.23*	6.23*	23.98
10			26.61*	26.61*	16.87*	15.19	13.38*	9.72	7.63*	6.84	6.32*	6.32*	25.28
5					19.87*	14.28	14.76*	9.31	9.45*	6.69	6.73*	6.48	25.53
0 (GROUND)			15.81*	15.81*	21.18*	13.78	15.50*	9.04			7.56*	6.68	24.77
-5	15.90*	15.90*	26.24*	26.24*	20.52*	13.67	15.00*	8.96			9.19*	7.47	22.88
-10	26.87*	26.87*	24.62*	24.62*	17.51*	13.89					12.18*	9.49	19.55

Metric Unit: 1,000 kg

B (m) \ A (m)	2		3		4		5		6		7		MAX. REACH		A (m)
8													3.54*	3.54*	4.73
7													3.13*	3.13*	5.83
6									4.73*	4			2.93*	2.93*	6.59
5							5.67*	5.31	5.37*	3.95	3.55*	3.04	2.84*	2.84*	7.14
4			9.34*	9.34*	7.35*	7.3	6.32*	5.12	5.71*	3.85	4.94*	3	2.83*	2.67	7.50
3					8.80*	6.88	7.11*	4.91	6.16*	3.73	5.57*	2.94	2.87*	2.51	7.71
2					10.09*	6.5	7.87*	4.7	6.61*	3.6	5.82*	2.87	2.98*	2.43	7.79
1					10.89*	6.25	8.43*	4.53	6.97*	3.5	6.00*	2.81	3.15*	2.42	7.74
0 (GROUND)			6.91*	6.91*	11.12*	6.12	8.71*	4.42	7.15*	3.43	6.06*	2.76	3.43*	2.49	7.55
-1	6.37*	6.37*	9.79*	9.79*	10.90*	6.09	8.66*	4.38	7.10*	3.39	5.87*	2.75	3.85*	2.65	7.21
-2	9.53*	9.53*	13.06*	9.9	10.25*	6.11	8.23*	4.39	6.69*	3.4			4.53*	2.94	6.71
-3	13.35*	13.35*	11.39*	10.05	9.08*	6.21	7.28*	4.45					5.53*	3.49	5.99
-4			8.83*	8.83*	7.05*	6.39							5.17*	4.66	4.98

1. LOAD POINT IS THE END OF THE ARM.
 2. CAPACITIES MARKED WITH AN ASTERISK (*) ARE LIMITED BY HYDRAULIC CAPACITIES.
 3. LIFT CAPACITIES SHOWN DO NOT EXCEED 75% OF MINIMUM TIPPING LOADS OR 87% OF HYDRAULIC CAPACITIES.

Rating Over Front
 Rating Over Side or 360 degree

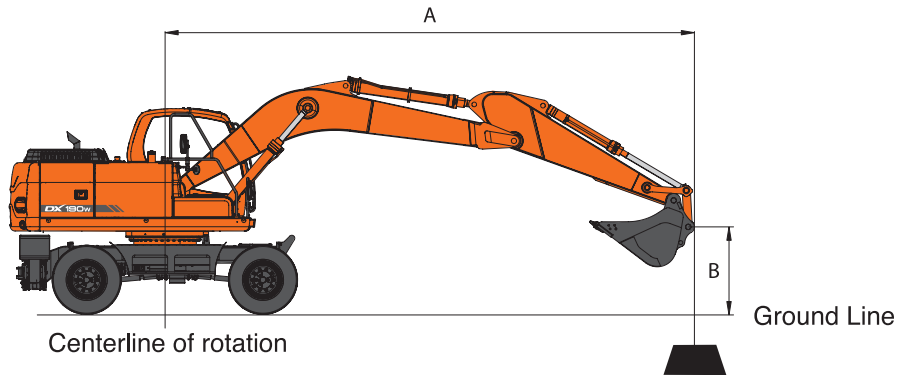
DX190W

Boom: 17'1" (5,200 mm)

Arm: 8'6" (2,600 mm)

Counterweight: 3.52 ton (3.2 metric ton)

Front OT Down + Rear OT Down



Feet Unit: 1,000 lb.

B (ft.) \ A (ft.)	5		10		15		20		25		MAX. REACH		A (ft.)	
25												7.38*	7.38*	17.05
20							9.79*	9.79*				6.49*	6.49*	21.42
15					13.63*	13.63*	12.05*	11.72				6.23*	6.23*	23.98
10			26.61*	26.61*	16.87*	16.87*	13.38*	11.32	7.63*	7.63*	6.32*	6.32*	25.28	
5					19.87*	17	14.76*	10.9	9.45*	7.79	6.73*	6.73*	25.53	
0 (GROUND)			15.81*	15.81*	21.18*	16.46	15.50*	10.61			7.56*	7.56*	24.77	
-5	15.90*	15.90*	26.24*	26.24*	20.52*	16.35	15.00*	10.53			9.19*	8.74	22.88	
-10	26.87*	26.87*	24.62*	24.62*	17.51*	16.58					12.18*	11.13	19.55	

Metric Unit: 1,000 kg

B (m) \ A (m)	2		3		4		5		6		7		MAX. REACH		A (m)
8													3.54*	3.54*	4.73
7													3.13*	3.13*	5.83
6									4.73*	4.73*			2.93*	2.93*	6.59
5							5.67*	5.67*	5.37*	5.37*	3.55*	3.55*	2.84*	2.84*	7.14
4			9.34*	9.34*	7.35*	7.35*	6.32*	6.32*	5.71*	5.39	4.94*	4.19	2.83*	2.83*	7.50
3					8.80*	8.80*	7.11*	7.02	6.16*	5.26	5.57*	4.13	2.87*	2.87*	7.71
2					10.09*	9.77	7.87*	6.79	6.61*	5.12	5.82*	4.05	2.98*	2.98*	7.79
1					10.89*	9.48	8.43*	6.6	6.97*	5.01	6.00*	3.98	3.15*	3.15*	7.74
0 (GROUND)			6.91*	6.91*	11.12*	9.33	8.71*	6.49	7.15*	4.93	6.06*	3.94	3.43*	3.43*	7.55
-1	6.37*	6.37*	9.79*	9.79*	10.90*	9.29	8.66*	6.43	7.10*	4.89	5.87*	3.93	3.85*	3.77	7.21
-2	9.53*	9.53*	13.06*	13.06*	10.25*	9.32	8.23*	6.44	6.69*	4.9			4.53*	4.19	6.71
-3	13.35*	13.35*	11.39*	11.39*	9.08*	9.08*	7.28*	6.52					5.53*	5	5.99
-4			8.83*	8.83*	7.05*	7.05*							5.17*	5.17*	4.98

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Rating Over Front
 Rating Over Side or 360 degree



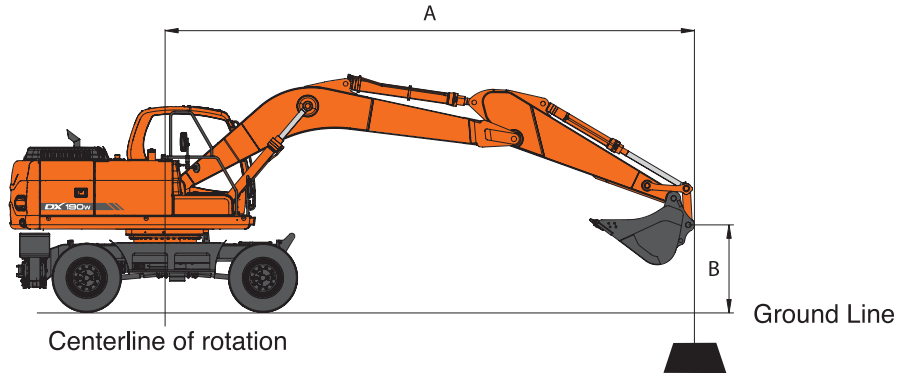
LIFTING CAPACITY (ONE-PIECE BOOM)

Boom: 17'1" (5,200 mm)

Arm: 10'2" (3,100 mm)

Counterweight: 3.52 ton (3.2 metric ton)

Front OT Down + Rear Dozer Down



Feet Unit: 1,000 lb.

B (ft.) \ A (ft.)	5		10		15		20		25		MAX. REACH		A (ft.)	
25												5.53*	5.53*	19.31
20							9.48*	8.72				6.15*	6.15*	22.81
15							11.07*	8.5	6.59*	5.8		6.02*	5.71	25.22
10			23.04*	23.04*	15.49*	12.62	12.54*	8.09	9.61*	5.66		6.20*	5.14	26.46
5			17.78*	17.78*	18.85*	11.65	14.13*	7.65	11.53*	5.47		6.67*	4.93	26.70
0 (GROUND)			18.59*	18.59*	20.77*	11.03	15.19*	7.32	11.50*	5.32		7.56*	5.03	25.97
-5	15.75*	15.75*	26.03*	20.72	20.78*	10.81	15.19*	7.17				9.23*	5.54	24.19
-10	24.43*	24.43*	26.91*	21.09	18.67*	10.92	13.30*	7.27				12.16*	6.8	21.06
-15			18.77*	18.77*	12.70*	11.44						11.65*	10.63	15.81

Metric Unit: 1,000 kg

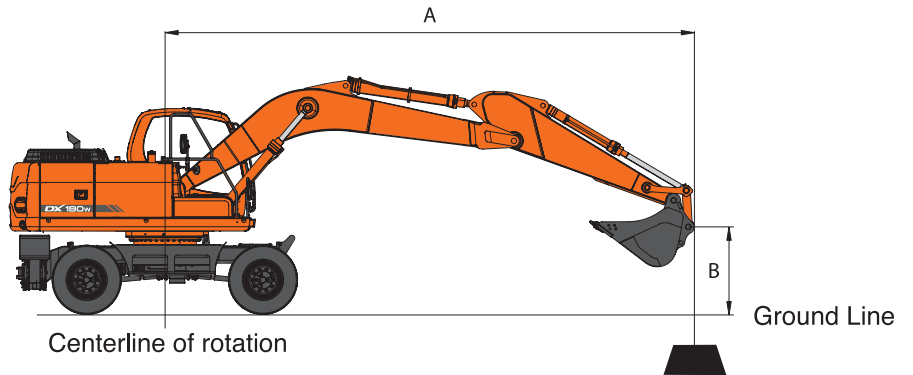
B (m) \ A (m)	1		2		3		4		5		6		7		8		MAX. REACH		A (m)	
8																		3.18*	3.18*	5.30
7											3.62*	3.62*						2.91*	2.91*	6.30
6											4.42*	4.06	2.82*	2.82*				2.78*	2.78*	7.01
5											4.90*	4	4.06*	3.08				2.73*	2.7	7.52
4									5.76*	5.2	5.28*	3.89	4.82*	3.02				2.75*	2.47	7.87
3					10.79*	10.79*	7.97*	7.03	6.58*	4.97	5.77*	3.75	5.26*	2.95	3.15*	2.36		2.82*	2.32	8.07
2					9.21*	9.21*	9.41*	6.61	7.42*	4.74	6.28*	3.61	5.56*	2.86	3.65*	2.32		2.94*	2.25	8.15
1					7.21*	7.21*	10.45*	6.28	8.10*	4.54	6.72*	3.49	5.82*	2.78	3.69*	2.28		3.14*	2.23	8.10
0 (GROUND)					8.15*	8.15*	10.96*	6.09	8.53*	4.4	7.01*	3.39	5.97*	2.72				3.43*	2.28	7.92
-1	5.61*	5.61*	6.71*	6.71*	10.16*	9.65	10.99*	6.01	8.64*	4.32	7.08*	3.34	5.95*	2.69				3.87*	2.41	7.60
-2	7.71*	7.71*	9.18*	9.18*	13.01*	9.71	10.58*	6.01	8.41*	4.3	6.88*	3.33	5.62*	2.7				4.57*	2.64	7.12
-3	10.08*	10.08*	12.15*	12.15*	12.45*	9.83	9.69*	6.07	7.76*	4.34	6.22*	3.37						5.52*	3.06	6.46
-4			13.63*	13.63*	10.33*	10.05	8.15*	6.2	6.40*	4.45								5.46*	3.89	5.52
-5							5.26*	5.26*										4.97*	4.97*	4.15

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Rating Over Front
 Rating Over Side or 360 degree

DX190W

Boom: 17'1" (5,200 mm)
Arm: 10'2" (3,100 mm)
Counterweight: 3.52 ton (3.2 metric ton)
Front OT Down + Rear OT Down



Feet Unit: 1,000 lb.

B (ft.) \ A (ft.)	5		10		15		20		25		MAX. REACH		A (ft.)	
25												6.74*	6.74*	18.78
20							9.48*	8.72				6.15*	6.15*	22.81
15							11.07*	8.5	6.59*	5.8		6.02*	5.71	25.22
10			23.04*	23.04*	15.49*	12.62	12.54*	8.09	9.61*	5.66		6.20*	5.14	26.46
5			17.78*	17.78*	18.85*	11.65	14.13*	7.65	11.53*	5.47		6.67*	4.93	26.70
0 (GROUND)			18.59*	18.59*	20.77*	11.03	15.19*	7.32	11.50*	5.32		7.56*	5.03	25.97
-5	15.75*	15.75*	26.03*	20.72	20.78*	10.81	15.19*	7.17				9.23*	5.54	24.19
-10	24.43*	24.43*	26.91*	21.09	18.67*	10.92	13.30*	7.27				12.16*	6.8	21.06
-15			18.77*	18.77*	12.70*	11.44						11.65*	10.63	15.80

Metric Unit: 1,000 kg

B (m) \ A (m)	1		2		3		4		5		6		7		8		MAX. REACH		A (m)	
8																		3.18*	3.18*	5.30
7											3.62*	3.62*						2.91*	2.91*	6.30
6											4.42*	4.06	2.82*	2.82*				2.78*	2.78*	7.01
5											4.90*	4	4.06*	3.08				2.73*	2.7	7.52
4									5.76*	5.2	5.28*	3.89	4.82*	3.02				2.75*	2.47	7.87
3					10.79*	10.79*	7.97*	7.03	6.58*	4.97	5.77*	3.75	5.26*	2.95	3.15*	2.36		2.82*	2.32	8.07
2					9.21*	9.21*	9.41*	6.61	7.42*	4.74	6.28*	3.61	5.56*	2.86	3.65*	2.32		2.94*	2.25	8.15
1					7.21*	7.21*	10.45*	6.28	8.10*	4.54	6.72*	3.49	5.82*	2.78	3.69*	2.28		3.14*	2.23	8.10
0 (GROUND)					8.15*	8.15*	10.96*	6.09	8.53*	4.4	7.01*	3.39	5.97*	2.72				3.43*	2.28	7.92
-1	5.61*	5.61*	6.71*	6.71*	10.16*	9.65	10.99*	6.01	8.64*	4.32	7.08*	3.34	5.95*	2.69				3.87*	2.41	7.60
-2	7.71*	7.71*	9.18*	9.18*	13.01*	9.71	10.58*	6.01	8.41*	4.3	6.88*	3.33	5.62*	2.7				4.57*	2.64	7.12
-3	10.08*	10.08*	12.15*	12.15*	12.45*	9.83	9.69*	6.07	7.76*	4.34	6.22*	3.37						5.52*	3.06	6.46
-4			13.63*	13.63*	10.33*	10.05	8.15*	6.2	6.40*	4.45								5.46*	3.89	5.52
-5							5.26*	5.26*										4.97*	4.97*	4.15

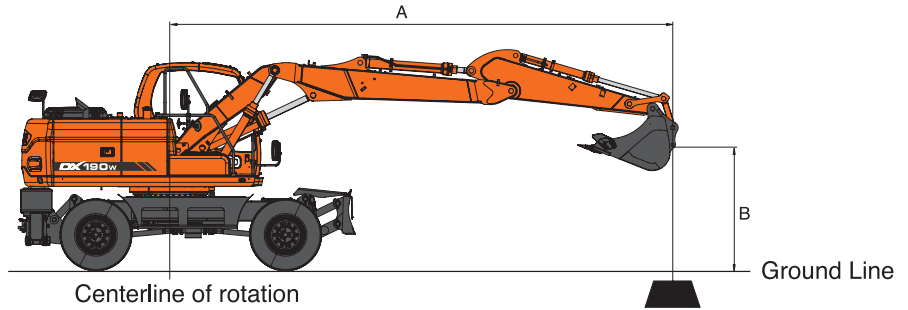
1. LOAD POINT IS THE END OF THE ARM.
 2. CAPACITIES MARKED WITH AN ASTERISK (*) ARE LIMITED BY HYDRAULIC CAPACITIES.
 3. LIFT CAPACITIES SHOWN DO NOT EXCEED 75% OF MINIMUM TIPPING LOADS OR 87% OF HYDRAULIC CAPACITIES.

Rating Over Front
 Rating Over Side or 360 degree



LIFTING CAPACITY (TWO-PIECE BOOM)

Lower Boom: 6'4" (1,930 mm)
Upper Boom: 12'6" (3,820 mm)
Arm: 7'7" (2,300 mm)
Bucket: Without Bucket
Counterweight: 3.52 ton (3.2 metric ton)
Front OT Down + Rear Dozer Down



Feet Unit: 1,000 lb.

B (ft.) \ A (ft.)	10		15		20		25		MAX. REACH		A (ft.)
25			9.92*	9.92*					6.30*	6.30*	17.10
20			9.72*	9.72*	10.04*	8.53			5.24*	5.24*	21.46
15	15.30*	15.30*	11.79*	11.79*	10.55*	8.35			4.83*	4.83*	24.01
10			15.23*	12.2	12.00*	7.95	7.52*	5.59	4.72*	4.72*	25.32
5			18.55*	11.33	13.65*	7.56	9.78*	5.45	4.85*	4.85*	25.57
0 (GROUND)			20.43*	10.93	14.88*	7.3			5.25*	5.25*	24.81
-5	23.49*	21.08	20.73*	10.9	15.20*	7.27			6.08*	6.08*	22.92

Metric Unit: 1,000 kg

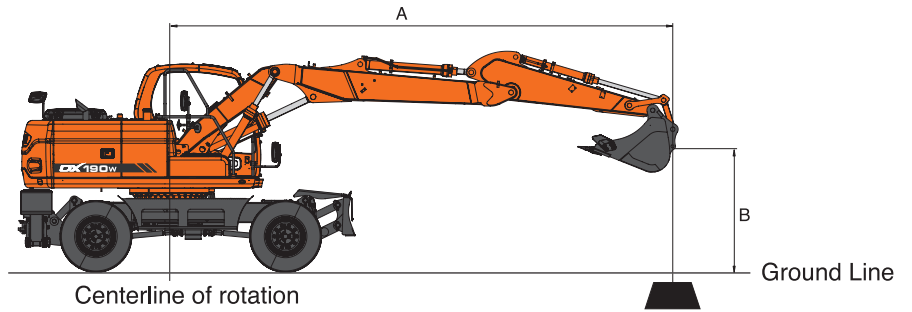
B (m) \ A (m)	3		4		5		6		7		MAX. REACH		A (m)
8											3.09*	3.09*	4.75
7					4.40*	4.40*					2.60*	2.60*	5.85
6					4.44*	4.44*	4.52*	3.98			2.36*	2.36*	6.61
5			5.26*	5.26*	4.86*	4.86*	4.66*	3.93	3.71*	3.01	2.22*	2.22*	7.14
4			6.53*	6.53*	5.55*	5.07	5.04*	3.82	4.82*	2.98	2.16*	2.16*	7.51
3			8.08*	6.72	6.39*	4.84	5.53*	3.69	5.07*	2.91	2.14*	2.14*	7.72
2			9.49*	6.34	7.22*	4.62	6.05*	3.56	5.38*	2.84	2.17*	2.17*	7.80
1			10.40*	6.12	7.91*	4.46	6.51*	3.45	5.68*	2.78	2.25*	2.25*	7.75
0 (GROUND)			10.83*	6.04	8.36*	4.37	6.86*	3.39	5.90*	2.74	2.38*	2.38*	7.56
-1	8.24*	8.24*	10.90*	6.04	8.56*	4.34	7.03*	3.36	5.94*	2.74	2.60*	2.60*	7.23
-2	12.63*	9.91	10.63*	6.09	8.46*	4.36	6.92*	3.39			2.94*	2.94*	6.72

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- LIFT CAPACITIES SHOWN DO NOT EXCEED 75% OF MINIMUM TIPPING LOADS OR 87% OF HYDRAULIC CAPACITIES.

Rating Over Front
 Rating Over Side or 360 degree

DX190W

Lower Boom: 6'4" (1,940 mm)
Upper Boom: 12'6" (3,820 mm)
Arm: 7'7" (2,300 mm)
Counterweight: 3.52 ton (3.2 metric ton)
Front OT Down + Rear OT Down



Feet Unit: 1,000 lb.

B (ft.) \ A (ft.)	10		15		20		25		MAX. REACH		A (ft.)
25			9.92*	9.92*					6.31*	6.31*	17.11
20			9.72*	9.72*	10.04*	10.04*			5.24*	5.24*	21.46
15	15.30*	15.30*	11.79*	11.79*	10.55*	10.55*			4.83*	4.83*	24.01
10			15.23*	15.23*	12.00*	11.3	7.52*	7.52*	4.72*	4.72*	25.32
5			18.55*	16.86	13.65*	10.87	9.78*	7.79	4.85*	4.85*	25.57
0 (GROUND)			20.43*	16.41	14.88*	10.6			5.25*	5.25*	24.81
-5	23.49*	23.49*	20.73*	16.37	15.20*	10.56			6.08*	6.08*	22.92

Metric Unit: 1,000 kg

B (m) \ A (m)	3		4		5		6		7		MAX. REACH		A (m)
8											3.08*	3.08*	4.75
7					4.40*	4.40*					2.60*	2.60*	5.85
6					4.44*	4.44*	4.52*	4.52*			2.36*	2.36*	6.61
5			5.26*	5.26*	4.86*	4.86*	4.66*	4.66*	3.71*	3.71*	2.22*	2.22*	7.14
4			6.53*	6.53*	5.55*	5.55*	5.04*	5.04*	4.82*	4.19	2.16*	2.16*	7.51
3			8.08*	8.08*	6.39*	6.39*	5.53*	5.25	5.07*	4.12	2.14*	2.14*	7.72
2			9.49*	9.49*	7.22*	6.75	6.05*	5.11	5.38*	4.05	2.17*	2.17*	7.80
1			10.40*	9.4	7.91*	6.57	6.51*	4.99	5.68*	3.98	2.25*	2.25*	7.75
0 (GROUND)			10.83*	9.3	8.36*	6.47	6.86*	4.92	5.90*	3.94	2.38*	2.38*	7.56
-1	8.24*	8.24*	10.90*	9.29	8.56*	6.43	7.03*	4.89	5.94*	3.94	2.60*	2.60*	7.23
-2	12.63*	12.63*	10.63*	9.36	8.46*	6.46	6.92*	4.92			2.94*	2.94*	6.72

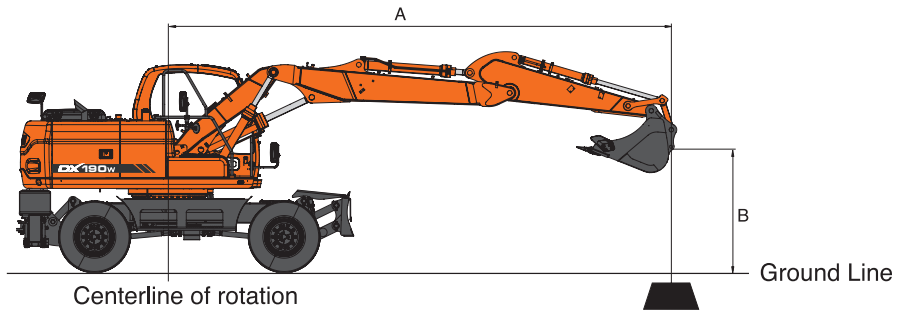
- LOAD POINT IS THE END OF THE ARM.
- CAPACITIES MARKED WITH AN ASTERISK (*) ARE LIMITED BY HYDRAULIC CAPACITIES.
- LIFT CAPACITIES SHOWN DO NOT EXCEED 75% OF MINIMUM TIPPING LOADS OR 87% OF HYDRAULIC CAPACITIES.

Rating Over Front
 Rating Over Side or 360 degree



LIFTING CAPACITY (TWO-PIECE BOOM)

Lower Boom: 6'4" (1,940 mm)
Upper Boom: 12'6" (3,820 mm)
Arm: 8'6" (2,600 mm)
Counterweight: 3.52 ton (3.2 metric ton)
Front OT Down + Rear Dozer Down



Feet Unit: 1,000 lb.

B (ft.) \ A (ft.)	10		15		20		25		MAX. REACH		A (ft.)
25			8.85*	8.85*					5.81*	5.81*	18.57
20			8.89*	8.89*	9.27*	9.27*			4.93*	4.93*	22.62
15	13.49*	13.49*	10.95*	10.95*	9.96*	9.96*	4.94*	4.94*	4.57*	4.57*	25.05
10			14.39*	14.39*	11.48*	9.71	10.41*	6.82	4.47*	4.47*	26.30
5			17.87*	14.16	13.22*	9.25	11.19*	6.64	4.59*	4.59*	26.54
0 (GROUND)			20.05*	13.63	14.59*	8.94	11.01*	6.52	4.93*	4.93*	25.81
-5	22.02*	22.02*	20.69*	13.53	15.14*	8.86			5.65*	5.65*	24.00
-10			19.56*	13.76					14.27*	9.29	19.67

Metric Unit: 1,000 kg

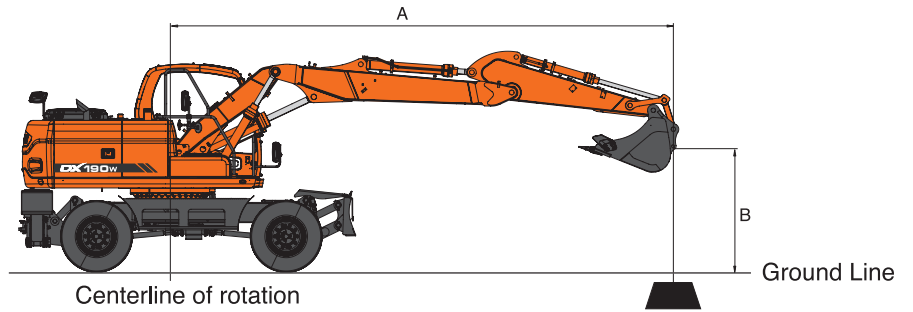
B (m) \ A (m)	3		4		5		6		7		8		MAX. REACH		A (m)
9													3.75*	3.75*	3.68
8					4.14*	4.14*							2.82*	2.82*	5.23
7					4.00*	4.00*	3.91*	3.91*					2.43*	2.43*	6.24
6					4.09*	4.09*	4.19*	4.19*					2.22*	2.22*	6.96
5			4.80*	4.80*	4.53*	4.53*	4.39*	4.39*	4.40*	3.68			2.10*	2.10*	7.47
4			6.03*	6.03*	5.22*	5.22*	4.78*	4.65	4.57*	3.62			2.04*	2.04*	7.82
3			7.56*	7.56*	6.07*	5.97	5.29*	4.5	4.86*	3.54	2.32*	2.32*	2.03*	2.03*	8.02
2			9.02*	8.04	6.94*	5.72	5.83*	4.36	5.20*	3.46	3.20*	2.81	2.05*	2.05*	8.10
1			10.08*	7.76	7.68*	5.53	6.34*	4.23	5.53*	3.38	2.79*	2.78	2.12*	2.12*	8.05
0 (GROUND)			10.66*	7.62	8.20*	5.41	6.73*	4.15	5.79*	3.33			2.24*	2.24*	7.87
-1	7.97*	7.97*	10.86*	7.59	8.48*	5.36	6.96*	4.11	5.91*	3.32			2.42*	2.42*	7.55
-2	11.61*	11.61*	10.72*	7.63	8.48*	5.37	6.95*	4.12	3.95*	3.36			2.72*	2.72*	7.06
-3			10.17*	7.74	8.10*	5.44	6.51*	4.2					6.36*	4.12	6.09

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Rating Over Front
 Rating Over Side or 360 degree

DX190W

Lower Boom: 6'4" (1,940 mm)
Upper Boom: 12'6" (3,820 mm)
Arm: 8'6" (2,600 mm)
Counterweight: 3.52 ton (3.2 metric ton)
Front OT Down + Rear OT Down



Feet Unit: 1,000 lb.

B (ft.) \ A (ft.)	10		15		20		25		MAX. REACH		A (ft.)
25			8.85*	8.85*					5.81*	5.81*	18.57
20			8.89*	8.89*	9.27*	9.27*			4.93*	4.93*	22.62
15	13.49*	13.49*	10.95*	10.95*	9.96*	9.96*	4.94*	4.94*	4.57*	4.57*	25.05
10			14.39*	14.39*	11.48*	11.34	10.41*	7.96	4.47*	4.47*	26.30
5			17.87*	16.92	13.22*	10.87	11.19*	7.77	4.59*	4.59*	26.54
0 (GROUND)			20.05*	16.36	14.59*	10.55	11.01*	7.65	4.93*	4.93*	25.81
-5	22.02*	22.02*	20.69*	16.25	15.14*	10.46			5.65*	5.65*	24.00
-10			19.56*	16.5					14.27*	10.95	19.67

Metric Unit: 1,000 kg

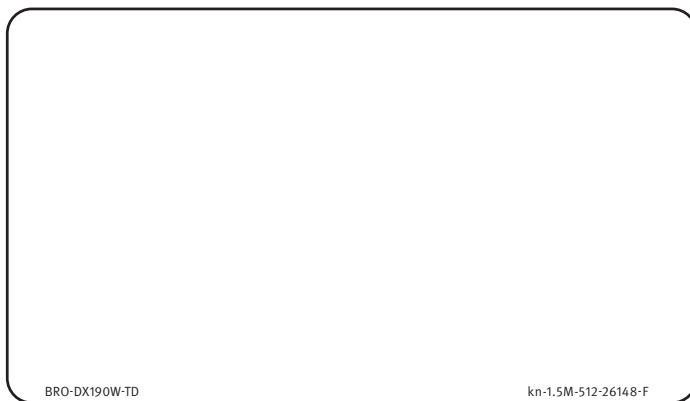
B (m) \ A (m)	3		4		5		6		7		8		MAX. REACH		A (m)
9													3.75*	3.75*	3.68
8					4.14*	4.14*							2.82*	2.82*	5.23
7					4.00*	4.00*	3.91*	3.91*					2.43*	2.43*	6.24
6					4.09*	4.09*	4.19*	4.19*					2.22*	2.22*	6.96
5			4.80*	4.80*	4.53*	4.53*	4.39*	4.39*	4.40*	4.27			2.10*	2.10*	7.47
4			6.03*	6.03*	5.22*	5.22*	4.78*	4.78*	4.57*	4.22			2.04*	2.04*	7.82
3			7.56*	7.56*	6.07*	6.07*	5.29*	5.27	4.86*	4.13	2.32*	2.32*	2.03*	2.03*	8.02
2			9.02*	9.02*	6.94*	6.78	5.83*	5.12	5.20*	4.04	3.20*	3.20*	2.05*	2.05*	8.10
1			10.08*	9.41	7.68*	6.57	6.34*	4.99	5.53*	3.97	2.79*	2.79*	2.12*	2.12*	8.05
0 (GROUND)			10.66*	9.27	8.20*	6.45	6.73*	4.9	5.79*	3.91			2.24*	2.24*	7.87
-1	7.97*	7.97*	10.86*	9.23	8.48*	6.39	6.96*	4.86	5.91*	3.9			2.42*	2.42*	7.55
-2	11.61*	11.61*	10.72*	9.28	8.48*	6.4	6.95*	4.87	3.95*	3.94			2.72*	2.72*	7.06
-3			10.17*	9.39	8.10*	6.48	6.51*	4.95					6.36*	4.85	6.09

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Rating Over Front
 Rating Over Side or 360 degree

NOTES

A large grid of graph paper for taking notes, consisting of 20 columns and 30 rows of small squares.



BRO-DX190W-TD

kn-1.5M-512-26148-F

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