

DX190WA

Engine Power: SAE J1349, net 116 kW (158 PS, 155 HP) @1,900 rpm

Operating Weight : 18,500 ~ 19,860 kg

Bucket / SAE: 0.38 ~ 0.93 m³







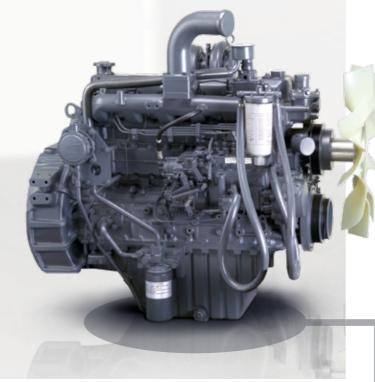
Performance & Stability

Maximum performance by Doosan in house engine

- Doosan in house engine perfectly harmonized with the hydraulic system and provides strong power.
- Mechanical engine providing high resistance to moisture, dust, and bad fuel quality.

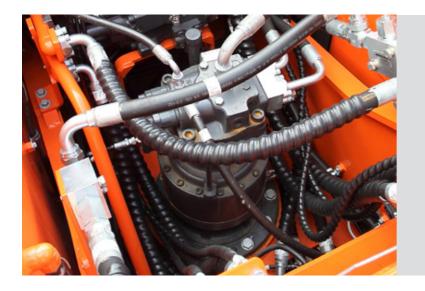
Doosan DX190WA Engine

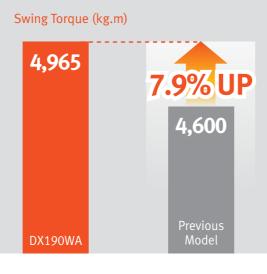
Make and Model	Doosan DB58TIS 6-Cylinders
Туре	Turbo charged
Rated Horse Power	123 kW (167 PS, 165 HP) @1,900 rpm (DIN 6271)
	116 kW (158 PS, 155 HP) @1,900 rpm (SAE J1349)
Torque	70 kgf.m @ 1,400 rpm
Alternator	2/ ₄ V X 60 Δ

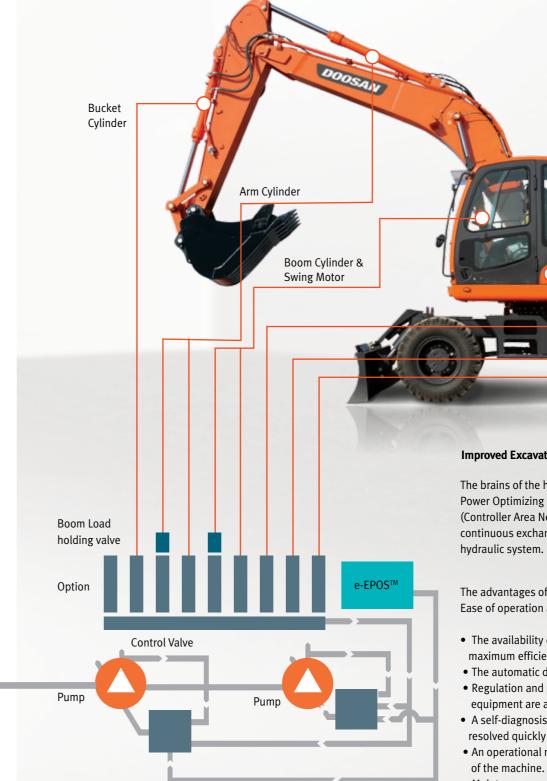


Smooth swing with Increased Swing torque

New Doosan swing reduction gear minimizes shocks during rotation while making increased swing torque .







The Industry's Best stability

- 3.0 ton Counter weight (The biggest)
- 2,700 Wheel based (The widest)

and the state of

Improved Excavator control by New e-EPOS™ system

The brains of the hydraulic excavator, the e-EPOS™ (Electronic Power Optimizing system), have been improved, through a CAN (Controller Area Network) communication link, enabling a continuous exchange of information between the engine and the hydraulic system.

The advantages of the new e-EPOS $^{\text{TM}}$ impacts at several levels, Ease of operation and user-friendliness:

- The availability of a power mode and standard mode guarantee maximum efficiency under all conditions.
- The automatic deceleration mode enables fuel saving.
- Regulation and precise control of the flow rate required by the equipment are available as standard.
- A self-diagnosis function enables technical problems to be resolved quickly and efficiently.
- An operational memory provides a graphic display of the status of the machine.
- Maintenance and oil change intervals can be displayed.

Fuel Efficiency

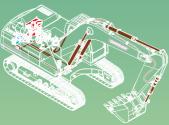




RELIEF CUTOFF

to prevent transfer of unnecessary flow

- Typically, the pump tends to supply flow even when the maximum pressure on the system is reached due to severe working environments
- Relief cutoff technology of Doosan prevent transfer of unnecessary flow



RELIEF CUTOFF

Relief cutoff technology saves 20~30% of fuel consumption in the heavy workload.





OPTIMIZED LEVER CONTROL

to prevent unnecessary fuel consumption

& AUTO IDLE

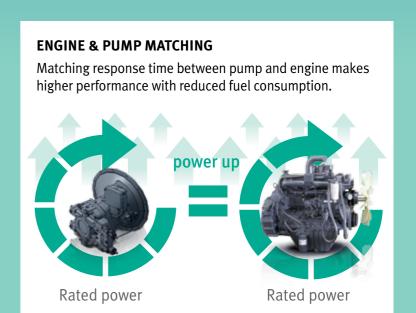




ENGINE & PUMP MATCHING

to reduce matching response time of the system

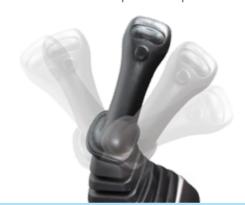
- It is common that response time of the system (time for generating rated
- Engine & pump matching, the new technology of Doosan, fully resolves

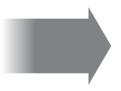


OPTIMIZED LEVER CONTROL

In auto idle, you can save 90% of fuel than in operation.

Fuel consumption in operation







The most Economic Model with **Great Productivity in Middle** Wheel Excavator



"NEW CONTROL LOGIC" for Better Fuel Efficiency

FUEL EFFICIENCY

FUEL CONSUMPTION





7 inch Monitor

Gauges

Navigation modes

Rear view camera

Display selector

Working modes

Auto-idle & flow rate control



Steering Column

The Forward/Neutral/Reverse & gear selection switch is mounted on the steering column to minimize operator movements while traveling so that safety and operator comfort are ensured. The lower part of Steering Column can be tilted for improved operator comfort.





Third gear speed controller

Rear Camera

1 Storage space

2 Cellular phone box



Dozer/Outrigger Control

The Dozer/Outrigger Control Lever, combined with the associated switches, allows for the operator to select between any combination of independent or simultaneous operation of the dozer/Outriggers.



Air conditioning with climate control

High performance, electronically controlled air conditioning features 5 different operating modes allowing the operator to adjust the airflow to suit conditions. A re-circulated air function is also available. Temperature is adjustable from 17°C (62°F) to 32°C (90°F) by 0.5°C (1°F) increments.







Maintenance & Safety







Fuel pre-filter

High efficiency fuel filtration is attained by the use of multiple filters, including a fuel prefilter fitted with a water separator that removes most moisture from the fuel.



Air cleaner

The large capacity forced air cleaner removes over 99% of airborne particles, reducing the risk of engine contamination and making the cleaning and cartridge change intervals greater.



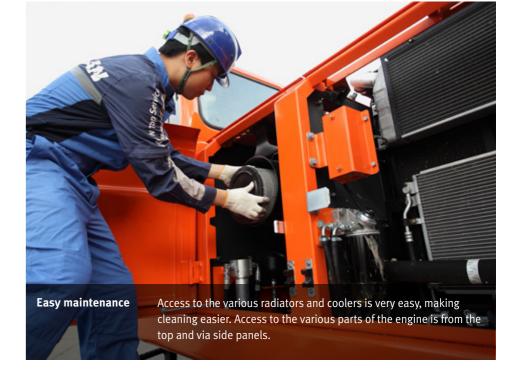
Remote greasing points

For comfortable maintenance, the arm and boom greasing points have been centralized. Remote & grouped greasing points on boom & arm.

Hydraulic oil return filter

The protection of the hydraulic system is more effective, using glass fiber filter technology in the main oil return filter. This means that with more than 99.5% of foreign particles filtered out, the oil change interval is increased.







Convenient Fuse Box

The fuse box is conveniently located in a section of the storage compartment behind the operator's seat providing a clean environment and easy access.



PC monitoring

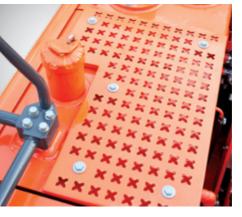
A PC monitoring function enables connection to the e-EPOS system. Thus, various parameters can safety while maintaining main parts in wet be checked during maintenance, including pump condition. pressures, engine rotation and engine speed. These can be stored and printed for analysis.



New battery box

a. Cut-off switch easier to reach b. New spring to facilitate fixing

c. New locking device



Larger anti-slip surface

High fraction coefficient guarantees user's



Improved Rim& Rubber space

New type Rim makes it possible to inject air from outside of machine. And expanded rubber space increases safety for maintenance.

Technical Specification

Engine

MODEL

DB58TIS

2 valves per cylinder, vertical injectors, water cooled, turbo charged with air to air intercooler. The emission levels are well below the values required for phase II.

NUMBER OF CYLINDERS

6

RATED HORSE POWER

123 kW (167 PS, 165 HP) @1,900 rpm (SAE J1995, Gross) 116 kW (158 PS, 155 HP) @1,900 rpm (SAE J1349, Net)

MAX TORQUE

70kgf.m @ 1,400 rpm

PISTON DISPLACEMENT

Ø102 mm x 118 mm

STARTER

24 V / 4.5 kW

BATTERIES

2 X 12 V / 100 AH

AIR CLEANER

Double element with auto dust evacuation.

Hydraulic System

The heart of the system is the e-EPOS (Electronic Power Optimizing System). It allows the efficiency of the system to be optimized for all working conditions and minimizes fuel consumption.

The new e-EPOS is connected to the engine electronic control via a data transfer link to harmonize the operation of the engine and hydraulics.

- The hydraulic system enables independent or combined operations.
- Cross-sensing pump system for fuel savings.
- Auto deceleration system.
- Two operating modes, two power modes.
- Button control of flow in auxiliary equipment circuits.
- Computer-aided pump power control.

MAIN PUMPS

2 variable displacement axial piston pumps max flow: 2 X 200 ℓ /min (2 X 61.21 US gpm, 2 X 50.97 lmp gpm)

PILOT PUMP

Gear pump - max flow: 26.1 ½ /min (7.24 US gpm, 6.03 lmp gpm)

MAXIMUM SYSTEM PRESSURE

Boom/arm/Bucket:

- Normal mode: 330 kgf/cm²(324 bar)
- Power mode: 350 kgf/cm²(343 bar)

Travel: 350 kgf/cm²(343 bar) Swing: 270 kgf/cm²(265bar)

NeightOperating weight including Boom, Arm, Bucket, Undercarriage attachment, operator, lubricant, coolant, full fuel tank and the standard equipment.

Front Con	nbination	Undercari	Undercarriage Type					
Boom	Arm	Front	Rear	Operating Weight				
5,200 mm	2,600 mm	Cradle	Dozer	18,500 kg / 18,610 kg				
5,200 mm	2,600 mm	Dozer	Outrigger	19,600 kg / 19,710 kg				
5,360 mm (Two-Piece)	2,300 mm	Cradle	Dozer	18,600 kg / 18,710 kg				
5,360 mm (Two-Piece)	2,600 mm	Dozer	Outrigger	19,750 kg / 19,860 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.

DIAMETER X STROKE
85 X 1,195 mm
90 X 1,470 mm
80 X 1,025 mm

Undercarriage

Heavy-duty frame, all-welded stress-relieve structure. Top grade materials used for toughness. Specially heat-treated connecting pins. 10.0-20-14PR double tires with tire spacer. Front axle oscillating hydraulically.

Environment

Noise levels comply with environmental regulations (dynamic values).

LWA EXTERNAL SOUND LEVEL

101 dB(A) (2000/14/EC)

LPA OPERATOR SOUND LEVEL

75 dB(A) (ISO 6396)

Swing Mechanism

- An axial piston motor with two-stage planetary reduction gear is used for the swing.
- Increased swing torque reduces swing time.
- Internal induction-hardened gear.
- Internal gear and pinion immersed in lubricant bath.
- The swing brake for parking is activated by spring and released hydraulically.

Swing speed: 0 to 10.9 rpm

Drive

Fully hydrostatic driven, 3 speed power shift transmission, variable displacement, high torque, axial piston motor, foot pedal controls provide smooth travel, hub reduction type front steering axle and rear rigid axle.

TRAVEL SPEED (HIGH)

36 km/h

MAXIMUM TRACTION FORCE

10,900 kgf

MAXIMUM GRADE

37.4°/75 %

Refill Capacities

FUEL TANK

310 ℓ

COOLING SYSTEM (RADIATOR CAPACITY)

24 l

ENGINE OIL

25 ℓ

HYDRAULIC TANK

116 ℓ

Digging Forces (SAE)

DX190WA	Unit	Boom : 5,200 mm Arm : 2,600 mm	Boom: 5,200 mm Arm: 2,200 mm	Boom : 5,200 mm Arm : 3,100 mm
Bucket	kN	115.7 / 122.6	115.7 / 122.6	115.7 / 122.6
(Normal/Boost)	t	11.8 / 12.5	11.8 / 12.5	11.8 / 12.5
Arm	kN	82.4 / 88.3	96.1 / 102.0	76.5 / 81.4
(Normal/Boost)	t	8.4 / 9.0	9.8 / 10.4	7.8 / 8.3

Technical Specification

Bucket										
Ducket					Track			F/C + R/D Up		
					C/W (ton)			3.2		
Duralisat Time	Capacit	ty (m³)	Width	ı (mm)	W-:-l-4 (l-2)		5.2 m Boom		Arti Boom	n (5.36 m)
Bucket Type	SAE/PCSA	CECE	W/O Cutter	With Cutter	Weight (kg)	2.2 m Arm	2.6 m Arm	3.1 m Arm	2.3 m Arm	2.6 m Arm
	0.38	0.35	604	640	425	А	А	А	А	А
	0.45	0.41	727	775	448	А	А	А	А	А
	0.57	0.51	865	913	510	Α	А	В	В	В
GP	0.70	0.62	1,015	1,063	559	В	C	D	C	D
	0.76	0.67	1,079	1,127	592	C	C	D	D	D
	0.80	0.70	1,123	1,171	606	С	D	D	D	D
	0.93	0.81	1,267	1,315	654	D	D	Χ	Χ	Χ
	0.51	0.47	750	N/A	588	А	А	В	Α	В
	0.65	0.58	900	N/A	651	В	C	D	C	D
H Class	0.78	0.70	1,050	N/A	735	D	D	Χ	D	Χ
	0.82	0.74	1,100	N/A	756	D	D	X	Χ	Χ
	0.91	0.82	1,200	N/A	798	D	Χ	Χ	Χ	Χ
			Maxim	um load pin-on (p	payload+bucket)	1,899	1,792	1,598	1,671	1,602

					Track			F/C + R/D DN		
					C/W (ton)			3.2		
Bucket Type	Capacit	y (m³)	Width	(mm))A/-:- -+ ()		5.2 m Boom		Arti Boon	n (5.36 m)
вискет туре	SAE/PCSA	CECE	W/O Cutter	With Cutter	Weight (kg)	2.2 m Arm	2.6 m Arm	3.1 m Arm	2.3 m Arm	2.6 m Arm
	0.38	0.35	604	640	425	А	А	А	А	А
	0.45	0.41	727	727 775 4 865 913 5		А	А	А	А	А
	0.57	0.51	865	913	510	А	А	Α	А	А
GP	0.70	0.62	1,015	1,063	559	А	А	Α	А	А
	0.76	0.67	1,079	1,127	592	А	А	В	В	В
	0.80	0.70	1,123	1,171	606	А	В	В	В	В
	0.93	0.81	1,267	1,315	654	В	C	С	С	С
	0.51	0.47	750	N/A	588	А	А	Α	А	Α
	0.65	0.58	900	N/A	651	А	А	Α	Α	Α
H Class	0.78	0.70	1,050	N/A	735	А	В	С	В	С
	0.82	0.74	1,100	N/A	756	В	В	С	С	С
	0.91	0.82	1,200	N/A	798	С	С	D	С	D
			Maxim	um load pin-on (p	ayload+bucket)	2,418	2,245	2,064	2,173	2,046

Based on ISO 10567 and SAE J296, arm length without quick change clamp A: Suitable for materials with density of $2,100 \, \text{kg/m}^3$ ($3500 \, \text{lb/yd}^3$) or less B: Suitable for materials with density of $1,800 \, \text{kg/m}^3$ ($3000 \, \text{lb/yd}^3$) or less

- C : Suitable for materials with density of 1,500kg/m³ (2500lb/yd³) or less D : Suitable for materials with density of 1,200kg/m³ (2000lb/yd³) or less

This bucket recommendation is based on machine stability considering the tipping load with certain density of handling material, and should be strictly followed. It's more recommendable to use a smaller size of bucket than recommendation under the severe working condition and application to avoid the durability risks.

					Track		F/D DN + F	R/O DN = F/O DN	+ R/D DN	
					C/W (ton)			3.2		
Duelest Tone	Capaci	ty (m³)	Width	(mm)	M-: (1)		5.2 m Boom		Arti Boon	n (5.36 m)
Bucket Type	SAE/PCSA	CECE	W/O Cutter	With Cutter	Weight (kg)	2.2 m Arm	2.6 m Arm	3.1 m Arm	2.3 m Arm	2.6 m Arm
	0.38	0.35	604	640	425	А	А	А	А	А
	0.45	0.41	727	775	448	А	А	А	А	А
	0.57	0.51	865	913	510	А	А	А	А	А
GP	0.70	0.62	1,015	1,063	559	А	А	А	Α	А
	0.76	0.67	1,079	1,127	592	А	А	А	А	А
	0.80	0.70	1,123	1,171	606	А	Α	А	Α	А
	0.93	0.81	1,267	1,315	654	А	Α	А	А	А
	0.51	0.47	750	N/A	588	А	Α	А	Α	А
	0.65	0.58	900	N/A	651	А	Α	А	Α	А
H Class	0.78	0.70	1,050	N/A	735	А	А	А	Α	А
	0.82	0.74	1,100	N/A	756	Α	Α	А	Α	А
	0.91	0.82	1,200	N/A	798	А	А	А	А	А
			Maxim	um load pin-on (p	payload+bucket)	3,538	3,290	3,048	3,242	3,062

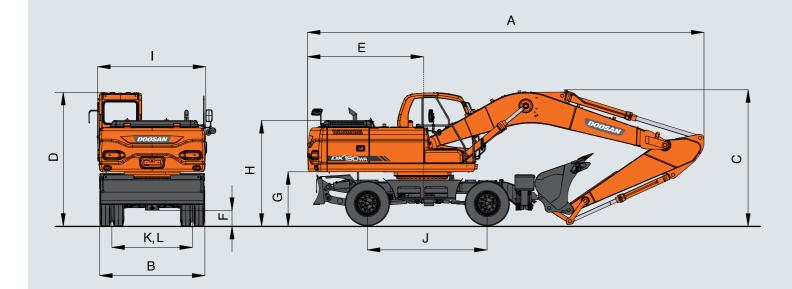
					Track			F/O DN + R/O DN				
					C/W (ton)	3.2						
Bucket Type	Capaci	ty (m³)	Width (mm)		Woight (kg)		5.2 m Boom		Arti Boon	n (5.36 m)		
вискет туре	SAE/PCSA	CECE	W/O Cutter	With Cutter	Weight (kg)	2.2 m Arm	2.6 m Arm	3.1 m Arm	2.3 m Arm	2.6 m Arm		
	0.38	0.35	604	640	425	А	А	А	Α	А		
	0.45	0.41	727	775	448	А	А	А	Α	А		
	0.57	0.51	865			А	А	А	Α	А		
GP	0.70	0.62	1,015	1,063	559	А	А	А	А	А		
	0.76	0.67			592	А	А	А	Α	А		
	0.80	0.70	1,123	1,171	606	А	А	А	А	А		
	0.93	0.81	1,267	1,315	654	А	А	А	Α	А		
	0.51	0.47	750	N/A	588	А	А	А	А	А		
	0.65	0.58	900	N/A	651	А	А	А	Α	А		
H Class	0.78	0.70	1,050	N/A	735	А	А	А	Α	А		
	0.82	0.74	1,100	N/A	756	А	А	А	А	А		
	0.91	0.82	1,200	N/A	798	А	А	А	А	А		
			Maxim	um load pin-on (p	payload+bucket)	4,300	3,996	3,709	3,966	3,746		

Based on ISO 10567 and SAE J296, arm length without quick change clamp A: Suitable for materials with density of $2,100 \, \text{kg/m}^3$ ($3500 \, \text{lb/yd}^3$) or less B: Suitable for materials with density of $1,800 \, \text{kg/m}^3$ ($3000 \, \text{lb/yd}^3$) or less

- C : Suitable for materials with density of 1,500kg/m³ (2500lb/yd³) or less D : Suitable for materials with density of 1,200kg/m³ (2000lb/yd³) or less X : Not recommended

This bucket recommendation is based on machine stability considering the tipping load with certain density of handling material, and should be strictly followed. It's more recommendable to use a smaller size of bucket than recommendation under the severe working condition and application to avoid the durability risks.

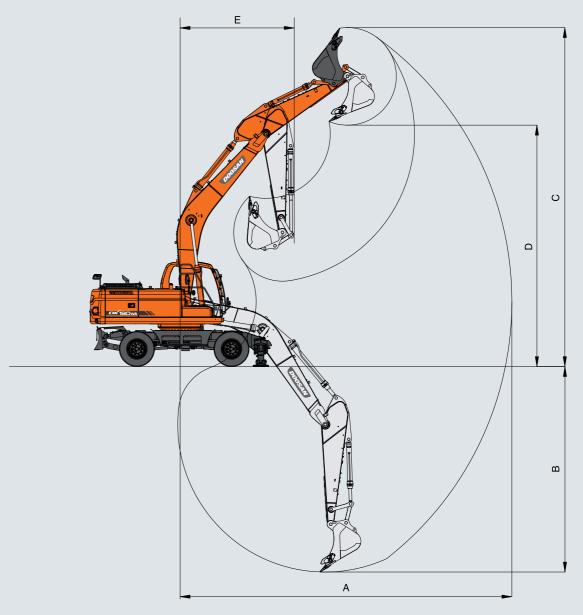
Dimensions



Dimensions

Reference	Description		Dimension 5.2m One-Piece Boom	
		2.6 m Arm	2.2 m Arm	3.1 m Arm
А	Shipping Length	8,659 mm	8,715 mm	8,507 mm
В	Shipping Width	2,496 mm	←	←
С	Shipping Height (Boom)	3,310 mm	3,212 mm	3,772 mm
D	Height Over Cab	3,135 mm	←	←
E	Counter Weight Swing Clearance	2,450 mm	←	←
F	Ground Clearance	350 mm	←	←
G	Counter Weight Clearance	1,249 mm	←	←
Н	Engine Cover Height	2,530 mm	←	←
I	Upper Housing Width	2,494 mm	←	←
J	Wheel Base	2,700 mm	←	←
K,L	Tread Width	1,944 mm	←	←

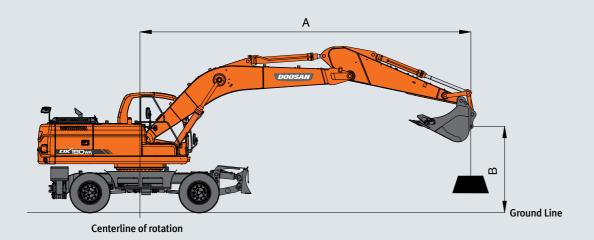
Working Ranges



Working Ranges

			Dimension	
Reference	Description		5.2 m One-Piece Boom	
		2.6 m Arm	2.2 m Arm	3.1 m Arm
А	Max. Digging Reach	9,190 mm	8,810 mm	9,545 mm
В	Max. Digging Reach(Ground)	8,985 mm	8,600 mm	9,350 mm
С	Max. Digging Depth	5,950 mm	5,550 mm	6,450 mm
D	Max. Loading Height	6,665 mm	6,435 mm	6,660 mm
E	Min. Loading Height	2,540 mm	2,960 mm	2,040 mm
F	Max. Digging Height	9,335 mm	9,105 mm	9,265 mm
G	Max. Bucket Pin Height	8,080 mm	7,850 mm	8,075 mm
Н	Max. Vertical Wall Depth	4,855 mm	4,475 mm	4,950 mm
J	Max. Radius Vertical	6,130 mm	5,990 mm	6,560 mm
J	Max. Depth to 2.5m Line	5,740 mm	5,310 mm	6,235 mm
K	Min. Radius 2.5m Line	2,425 mm	2,415 mm	2,325 mm
L	Min. Digging Reach	215 mm	1,195 mm	-350 mm
M	Min Swing Radius	3,200 mm	3,195 mm	3,185 mm

Lifting Capacity



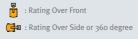
Standard

Boom: 5.6 m(18'04") One-Piece Boom Arm: 3.0 m (9'10") Bucket: Without Bucket Counterweight: 3,800 kg

Metric														Unit: 1,000kg
A(m)	Chassis Frame	1	.5		3	4	.5		6	7	.5		Max. Reach	
B(m)	Attachment	<u>F</u>	(=	4	(=	<u>-</u>	(4	Œ	-	(¹	(c	A(m)
	R-Rear Dozer Only Up											*3.31	*3.31	
7.5	R-Rear Dozer Only Down											*3.31	*3.31	- 5.34
7.5	F-Dozer + R-Outrigger Down											*3.31	*3.31	- 5.34
	4-Outrigger Down											*3.31	*3.31	
	R-Rear Dozer Only Up							*4.75	2.85			*2.95	2.39	
6	R-Rear Dozer Only Down							*4.75	3.5			*2.95	*2.95	(50
ь	F-Dozer + R-Outrigger Down							*4.75	*4.75			*2.95	*2.95	6.59
	4-Outrigger Down							*4.75	*4.75			*2.95	*2.95	
	R-Rear Dozer Only Up					*6.36	4.34	4.77	2.76			*2.84	1.95	
4.5	R-Rear Dozer Only Down					*6.36	5.38	*5.59	3.42			*2.84	2.44	7.22
4.5	F-Dozer + R-Outrigger Down					*6.36	*6.36	*5.59	4.88			*2.84	*2.84	7.33
	4-Outrigger Down					*6.36	*6.36	*5.59	*5.59			*2.84	*2.84	
	R-Rear Dozer Only Up					7.2	3.97	4.6	2.61	3.25	1.83	*2.89	1.74	
	R-Rear Dozer Only Down					*7.91	4.99	*6.24	3.26	*4.19	2.3	*2.89	2.19	
3	F-Dozer + R-Outrigger Down					*7.91	7.36	*6.24	4.71	*4.19	3.33	*2.89	*2.89	7.71
	4-Outrigger Down					*7.91	*7.91	*6.24	5.73	*4.19	4.04	*2.89	*2.89	
	R-Rear Dozer Only Up					6.81	3.64	4.42	2.45	3.18	1.77	3.01	1.67	
1.5	R-Rear Dozer Only Down					*9.31	4.64	*6.90	3.09	*5.04	2.23	*3.07	2.11	7 70
1.5	F-Dozer + R-Outrigger Down					*9.31	6.96	*6.90	4.53	*5.04	3.26	*3.07	*3.07	7.78
	4-Outrigger Down					*9.31	8.72	*6.90	5.54	*5.04	3.96	*3.07	*3.07	
	R-Rear Dozer Only Up			*6.89	6.18	6.6	3.46	4.3	2.35	3.14	1.73	3.11	1.71	
0	R-Rear Dozer Only Down			*6.89	*6.89	*9.91	4.45	*7.26	2.98	*3.96	2.19	*3.45	2.17	7.55
0	F-Dozer + R-Outrigger Down			*6.89	*6.89	*9.91	6.75	*7.26	4.41	*3.96	3.22	*3.45	3.19	7.55
	4-Outrigger Down			*6.89	*6.89	*9.91	8.49	*7.26	5.42	*3.96	3.92	*3.45	*3.45	
	R-Rear Dozer Only Up	*7.10	*7.10	11.52	6.23	6.55	3.42	4.27	2.31			3.46	1.9	
-1.5	R-Rear Dozer Only Down	*7.10	*7.10	11.52	8.34	*9.61	4.41	*7.05	2.95			*4.17	2.42	6.99
-1.5	F-Dozer + R-Outrigger Down	*7.10	*7.10	11.52	11.52	*9.61	6.7	*7.05	4.38			*4.17	3.55	6.99
	4-Outrigger Down	*7.10	*7.10	11.52	11.52	*9.61	8.44	*7.05	5.38			*4.17	*4.17	
	R-Rear Dozer Only Up	11.94	11.94	11.57	6.4	6.64	3.5					4.37	2.4	
-3	R-Rear Dozer Only Down	11.94	11.94	11.57	8.52	*8.27	4.49					*5.63	3.04	5.99
-5	F-Dozer + R-Outrigger Down	11.94	11.94	11.57	11.57	*8.27	6.79					*5.63	4.48	5.77
	4-Outrigger Down	11.94	11.94	11.57	11.57	*8.27	*8.27					*5.63	5.49	
	R-Rear Dozer Only Up											*5.19	4.23	
-4.5	R-Rear Dozer Only Down											*5.19	*5.19	4.12
	F-Dozer + R-Outrigger Down											*5.19	*5.19	

- 1. Ratings are based on SAE J1097
- 2. Load point is the end of arm.
- *Rated loads are based on hydraulic capacity.

 4. Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping capacity.



eet														Unit: 1,000
A(ft)	Chassis Frame		5	1	.0	1	5	2	20	1	25		Max. Reach	
B(ft)	Attachment	F	(-	(<u> </u>	(4	(4	(5	(-	A(ft)
	R-Rear Dozer Only Up											*7.41	*7.41	
25	R-Rear Dozer Only Down											*7.41	*7.41	17.05
25	F-Dozer + R-Outrigger Down											*7.41	*7.41	17.05
	4-Outrigger Down											*7.41	*7.41	
	R-Rear Dozer Only Up							*9.82	6.1			*6.53	5.37	
20	R-Rear Dozer Only Down							*9.82	7.51			*6.53	*6.53	21.42
20	F-Dozer + R-Outrigger Down							*9.82	*9.82			*6.53	*6.53	21.42
	4-Outrigger Down							*9.82	*9.82			*6.53	*6.53	
	R-Rear Dozer Only Up					13.77	9.37	10.27	5.95			*6.27	4.34	
15	R-Rear Dozer Only Down					13.77	11.6	12.20	7.36			*6.27	5.41	22.00
15	F-Dozer + R-Outrigger Down					13.77	13.77	12.20	10.5			*6.27	*6.27	23.98
	4-Outrigger Down					13.77	13.77	12.20	12.20			*6.27	*6.27	
	R-Rear Dozer Only Up			26.90	15.25	15.51	8.59	9.91	5.63	6.99	3.93	*6.36	3.85	
	R-Rear Dozer Only Down			26.90	19.93	17.08	10.78	13.56	7.02	*7.67	4.94	*6.36	4.84	
10	F-Dozer + R-Outrigger Down			26.90	26.90	17.08	15.84	13.56	10.14	*7.67	7.17	*6.36	*6.36	25.28
	4-Outrigger Down			26.90	26.90	17.08	17.08	13.56	12.33	*7.67	*7.67	*6.36	*6.36	
	R-Rear Dozer Only Up					14.66	7.87	9.53	5.29	6.85	3.8	6.64	3.68	
_	R-Rear Dozer Only Down					20.13	10.01	14.96	6.67	*9.50	4.81	*6.77	4.65	
5	F-Dozer + R-Outrigger Down					20.13	14.99	14.96	9.76	*9.50	7.03	*6.77	*6.77	25.53
	4-Outrigger Down					20.13	18.74	14.96	11.93	*9.50	8.54	*6.77	*6.77	
	R-Rear Dozer Only Up			15.78	13.3	14.19	7.47	9.27	5.06			6.85	3.77	
	R-Rear Dozer Only Down			15.78	15.78	21.47	9.59	15.73	6.43			*7.60	4.79	
0	F-Dozer + R-Outrigger Down			15.78	15.78	21.47	14.52	15.73	9.5			*7.60	7.03	24.77
	4-Outrigger Down			15.78	15.78	21.47	18.24	15.73	11.66			*7.60	*7.60	
	R-Rear Dozer Only Up	15.86	15.86	26.21	13.4	14.08	7.38	9.2	5			7.66	4.21	
-	R-Rear Dozer Only Down	15.86	15.86	26.21	17.88	20.81	9.49	15.23	6.36			*9.23	5.34	22.00
-5	F-Dozer + R-Outrigger Down	15.86	15.86	26.21	26.21	20.81	14.42	15.23	9.43			*9.23	7.86	22.88
	4-Outrigger Down	15.86	15.86	26.21	26.21	20.81	18.12	15.23	11.59			*9.23	*9.23	
	R-Rear Dozer Only Up	26.84	26.84	25.01	13.77	14.28	7.55					9.72	5.35	
10	R-Rear Dozer Only Down	26.84	26.84	25.01	18.29	17.79	9.68					12.39	6.76	10.55
-10	F-Dozer + R-Outrigger Down	26.84	26.84	25.01	25.01	17.79	14.62					12.39	9.96	19.55
	4-Outrigger Down	26.84	26.84	25.01	25.01	17.79	17.79					12.39	12.21	

- Ratings are based on SAE J1097
 Load point is the end of arm.
 * Rated loads are based on hydraulic capacity.
 Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping capacity.



: Rating Over Side or 360 degree

Standard and Optional Equipment

Standard Equipment

HYDRAULIC SYSTEM

- Boom and arm flow regeneration
- Boom and arm holding valves
- Swing anti-rebound valves
- Spare ports(valve)
- One-touch power boost

CABIN & INTERIOR

- Viscous cab mounts
- All weather sound suppressed type cab
- Air conditioner
- Adjustable suspension seat with head rest and adjustable arm rest
- Pull-up type front window and removable lower front window
- Room light
- Intermittent windshield wiper
- Cigarette lighter and ashtray
- Cup holder
- Hot & Cool box
- LCD color monitor panel
- Engine speed (RPM) control dial
- AM/FM radio and cassette player
- Remote radio ON/OFF switch
- 12V spare powers socket
- Serial communication port for laptop PC interface
- Joystick lever with 3 switches
- Sunvisor
- Sun roof
- wiper

SAFFTY

- Large handrails and step
- Punched metal anti-slip plates
- Seat belt
- Hydraulic safety lock lever
- Safety glass
- Hammer for emergency escape
- Right and left rearview mirrors
- Reverse travel alarm
- Emergency engine stop
- LED stop lamps

OTHERS

- Double element air cleaner
- Fuel pre-filter
- Dust screen for radiator/oil cooler/charged air cooler
- Engine overheat prevention system
- Engine restart prevention system
- Self-diagnostic system
- Large capacity alternator(24V, 60 amps)
- Electric hor
- Halogen working lights(frame mounted 2, boom mounted 2)

UNDERCARRIAGE

- 10.0-20-14PR double tires
- Heavy duty axles
- Parallel dozer balde & outriggers
- Tool box
- Front axle oscillation auto lock

Optional Equipment

Some of there optional equipments may be standard in some markets. Some of these optional equipments cannot be available on some markets. You must check with the local DOOSAN dealer to know about the availability or to release the adaptation following the needs of the applications.

SAFETY

- Boom and arm hose rupture protection valve
- Overload warning device
- Cabin Top/Front guard(ISO 10262, FOGS standard)
- Travel & swing alarm
- Rotation beacon
- Mirror & Lamp on counter weight
- Rear View Camera

CABIN & INTERIOR

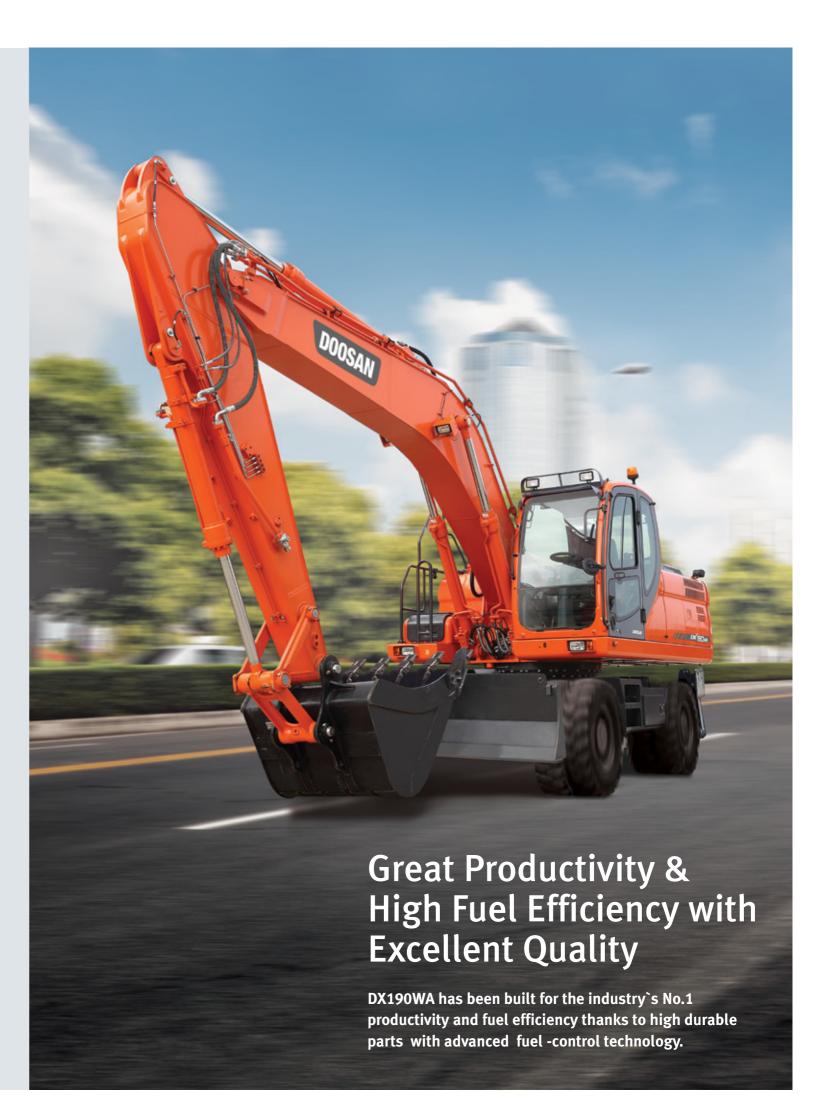
- Air suspension seatMP3/CD player
- Rain shield
- 2 front lamps
- 4 front + 2 rear lamps

OTHERS

- Piping for crusher
- Piping for quick clamp
- Piping for front attachment rotation
- Breaker filter
- Lower wiper
- Fuel heater
- Fuel filler pump

UNDERCARRIAGE

• 10.0-20-16PR double tires

















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