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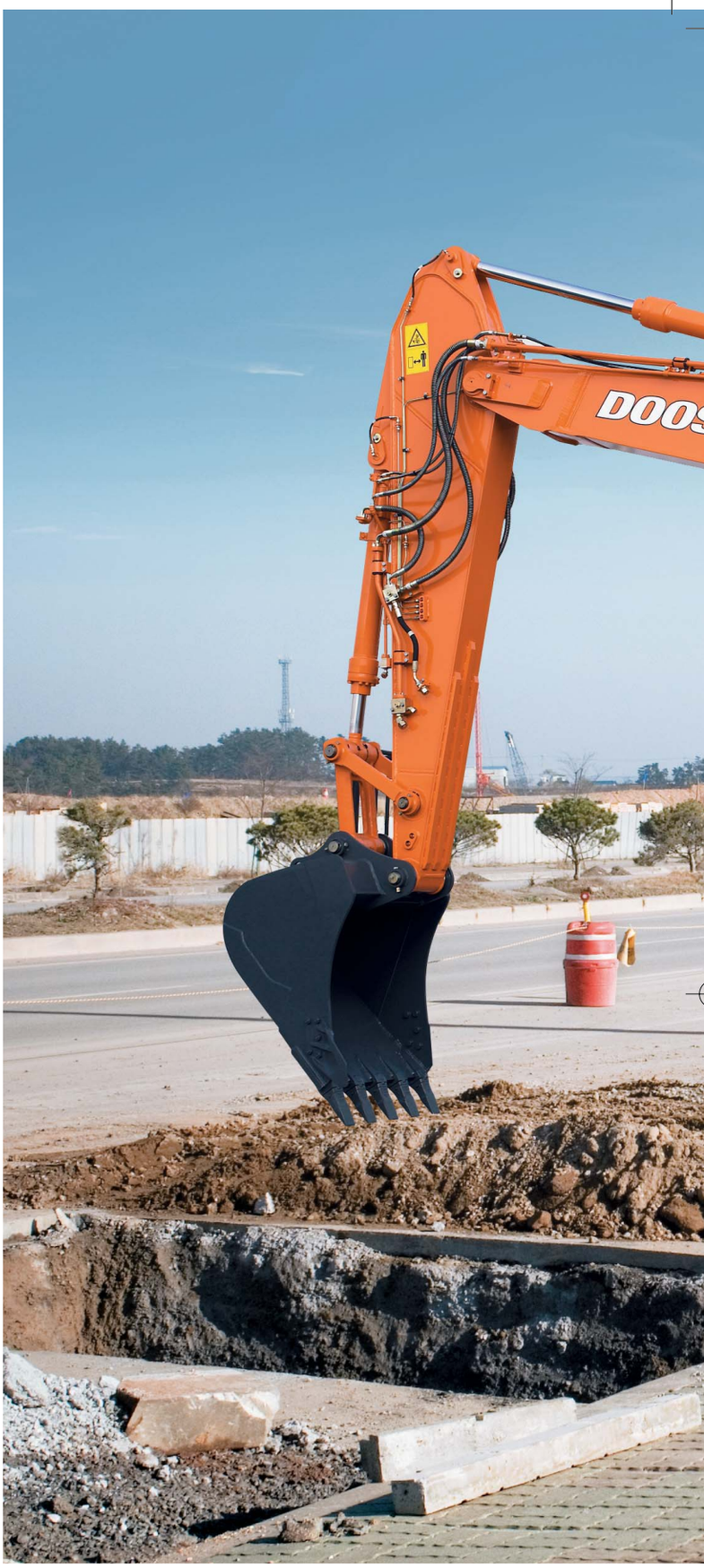
PBP D210W000 0703

DOOSAN

Doosan Infracore
Construction Equipment

DX210W

Engine Power : SAE J1349, net 121 kW(162 HP)@2,000rpm
Operational Weight : 20,420 ~ 20,900kg (45,018 ~46,077 lb)
Bucket capacity(SAE) : 0.51 ~ 1.28 m^3 (0.67 ~ 1.67 cu.yd)



DX210W

The new DX210W hydraulic excavator has all the advantages of the previous model, and now offers additional added value to the operator.

The new DX210W was developed with the concept of “providing optimum value to the end user.” In concrete terms, this translates, into :

Doosan DX210W Hydraulic Excavator :

A New Model with Novel Features

Increased production and improved fuel economy is attributed to the electronic optimization of the hydraulic system and the new generation DOOSAN engine (Tier Ⅲ / Stage Ⅲ).

Improved ergonomics increases comfort and excellent all round visibility ensuring a safe and pleasant working environment.

Improved reliability is achieved through the use of high performance materials combined with new methods of structural stress analysis, and leads to increased component life expectancy, thus reducing running costs.

Reduced maintenance increases the availability and reduces operating costs of the excavator.

HANDLING

The hydraulic excavator's power, durability, ease of servicing and its precise control increase its effectiveness and life expectancy. With the DX210W, DOOSAN offers an excellent return on investment.

Warning lights

Operation modes
- Mode selection
- Flow rate control
- Auto deceleration
- Display selection

Control panel
With color LCD display

Choice of operating modes

Working mode
- Digging mode: for general excavation, loading, lifting...
- Trenching mode: swing priority for trench work, canal digging, embankments...

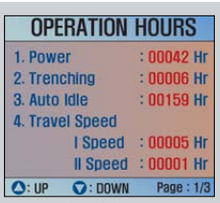
Power mode
- Standard: uses 85% engine power for all work
- Power: uses 100% engine power for heavy work

Control lever
Very precise control of the equipment increases versatility, safety and facilitates tricky operations requiring great precision.
Leveling operations and particularly the movement of suspended loads are made easier and safer.
The control levers have additional electrical buttons for controlling other additional equipment (for example, grabs, crushers, grippers, etc.)

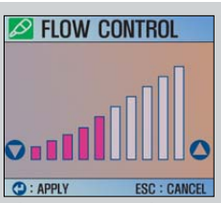
Standard screen

Theft prevention function

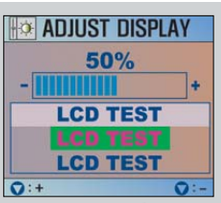
Filter/oil information



Operation history



Flow rate control



Contrast control


Cellular phone box


12V Power socket/Cigarette lighter


Glass antenna


Storage space

COMFORT

DX210W

The work rate of the hydraulic excavator is directly linked to the performace of its operator. DOOSAN designed the DX210W by putting the operator at the centre of the development goals. The result is significant ergonomic value that improves the efficiency and safety of the operator.

More space, better visibility, air conditioning, a very comfortable seat... These are all elements that ensure that the operator can work for hours and hours in excellent conditions.

Control panel
Correct positioning with clear controls makes the operator's task easier.

The high performance air conditioning provides an air flow which is adjusted and electronically controlled for the conditions.
Five operating modes enable even the most demanding operator to be satisfied.

MP3/CD Player (Optional)

Audio Button
Audio Button has been positioned in a way that the driver can turn on/off the radio, control the volume, and select a channel conveniently.

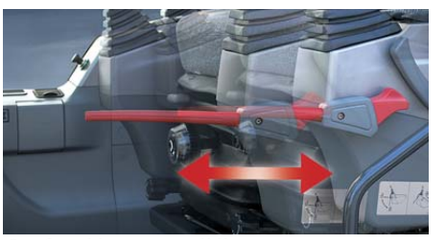
Steering wheel

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.

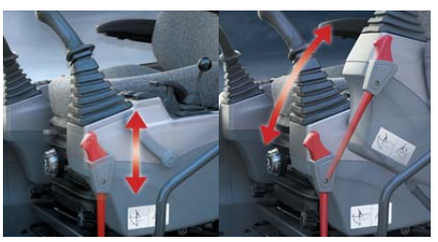
Air suspension seat (Optional)
An Air Suspension Seat is available as an option, which further reduces any vibration being transmitted to the operator while working or travelling. In addition, this option is fitted with a heating system for operator comfort in cold weather.

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 simulataneous operation of the dozer/ outriggers.

Foot Pedals
The position of the Option, Brake and Accelerator Pedal have been set by ergonomic analysis to maximise operating efficiency while minimizing foot movement. The required pedal operating forces have also been decreased to reduce fatigue.



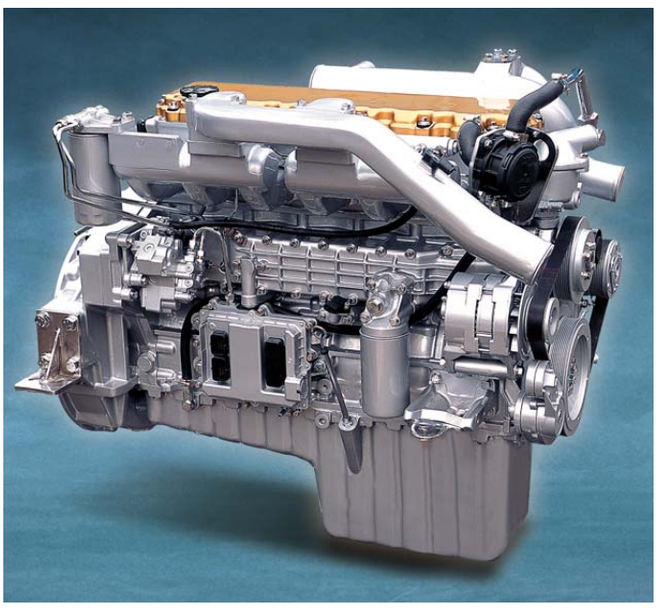
Comfortable 2-stage sliding seat



Control stand (Telescopic & Tilting Function)

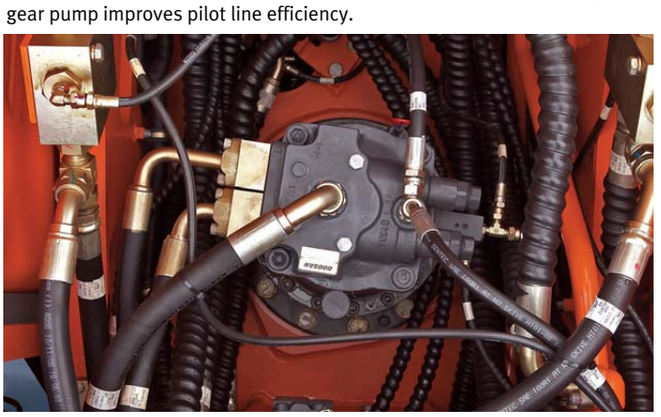
PERFORMANCE

The performance of the DX210W has a direct effect on its productivity. Its new "Common Rail" engine and new e-EPOS controlled hydraulic system have combined to create an unbeatable hydraulic excavator, with a cost/performance ratio that makes the DX210W even more appealing.



"COMMON RAIL" DOOSAN DL06 ENGINE

Hydraulic Pump
Considering the property of wheel excavator that intensively performs traveling operation, bent axis piston pump is adopted for its high efficiency and excellent response in high pressure. The Main pump has a capacity of 2x231.7 ℓ /min(@ 2,000rpm) reducing cycle time while a high capacity gear pump improves pilot line efficiency.



Swing drive
Shocks during rotation are minimized, while increased torque is available to ensure rapid cycles.

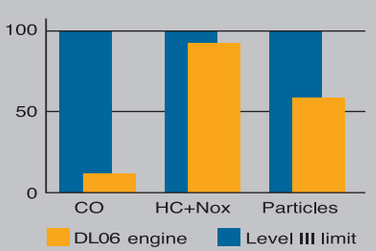
At the heart of the hydraulic excavator is the new "Common Rail" DOOSAN DL06 engine. It is combined with the new e-EPOS electronic control system, for optimum power and fuel saving.

The new engine produces 162 hp(121 kw/164 PS) at only 2,000 rpm, and more torque, due to its careful design combined with the use of common rail injection and 4 valves per cylinder. These features help optimize combustion and minimize pollution through reduced Nox & particulate emissions.

Increased torque allows efficient use of the power of the hydraulic system.

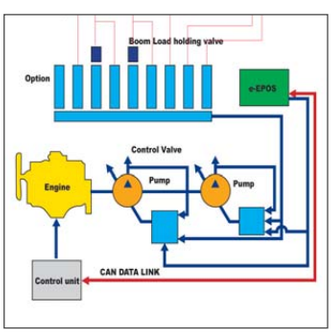
- Faster working cycles increase productivity.
- Increased torque means the excavator is able to move more easily.
- Energy efficiency reduces fuel consumption.

DOOSAN infracore is aware of the importance of protecting the environment. Ecology was uppermost in the minds of the research workers right from the start of the design of the new machines. The new challenge for the engineers is to combine the protection of nature with equipment performance and to this end DOOSAN has been investing heavily.



The new DOOSAN engine respects and protects the environment, limiting all types of toxic emissions.

EXCAVATOR CONTROL

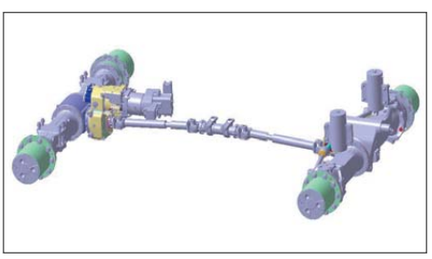


New e-EPOS system (Electronic Power Optimizing System)
The brains of the hydraulic excavator, the e-EPOS, have been improved and now can electronically link to the engines ECU (Electronic Control Unit), through a CAN (Controller Area Network) communication link, enabling a continuous exchange of information between the engine and the hydraulic system. These units are now perfectly synchronised.

The advantages of the new e-EPOS impacts at several levels,
Ease of operation and user-friendliness:

- The availability of a power mode and a normal operating mode guarantee maximum efficiency under all conditions.
- Electronic control of fuel consumption optimizes efficiency.
- 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.

DX 210W

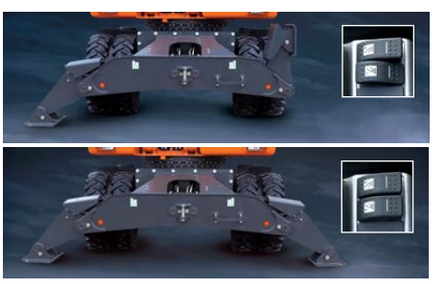


New Drive Line Concept
The new travel motor and transmission control in the drive line provide comfortable travel due to increased smoothness, improved hydraulic retarding and improved gear shifting.

Heavy Duty Axles
The front axle offers wide oscillating and steering angles. The transmission is mounted directly on the rear axle for protection and optimum ground clearance.

Advanced Disc Brake System
The new disc brake system works directly on the hub instead of the drive shaft to avoid planetary gear backlash. This eliminates the rocking effect associated with working free on wheels. The new axle is designed for low maintenance and the oil change intervals have been increased from 1,000 to 2,000 hours further reducing owning and operating costs.

Undercarriage Design
A rigid, welded frame provides excellent durability. Efficient hydraulic lines routing, transmission protection and heavy duty axles make the undercarriage perfect for wheel excavator applications.
Both outriggers and dozer blade are bolt-on for maximum flexibility.
An optional work tool restraint bar is available.

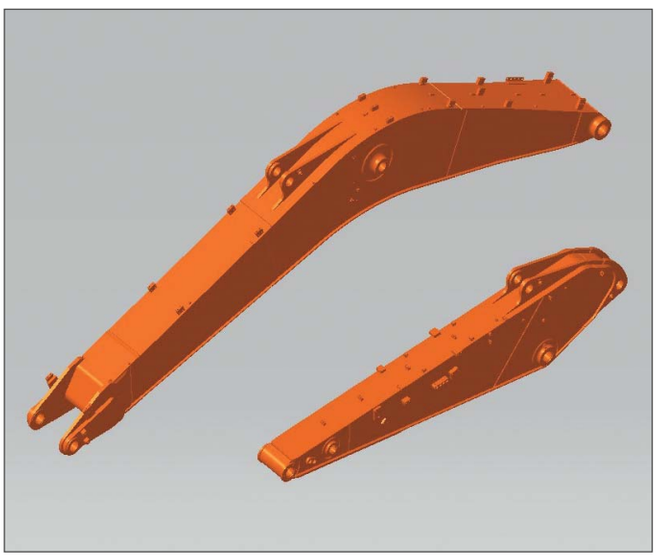


Outriggers
The bolt-on design allows the outriggers to be mounted on the front and/or rear for maximum operating stability when digging or lifting and are individually controlled for leveling on slopes.

Dozer
The bolt-on design allows the dozer to be mounted on the front and/or rear and is used for leveling, clean-up work and for stabilizing the machine during digging applications. The large dozer blade bottom and parallel design provide minimized ground pressure.

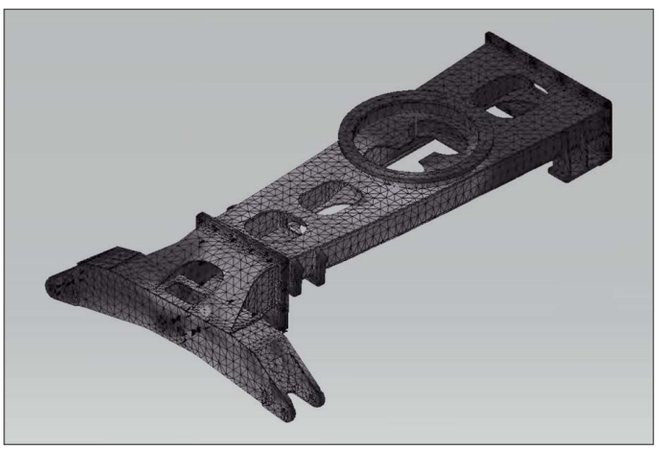
RELIABILITY

The reliability of an item of plant contributes to its overall lifetime operating costs. DOOSAN uses computer-assisted design techniques, highly durable materials and structures then test these under extreme conditions.
Durability of materials and longevity of structures are our first priorities.

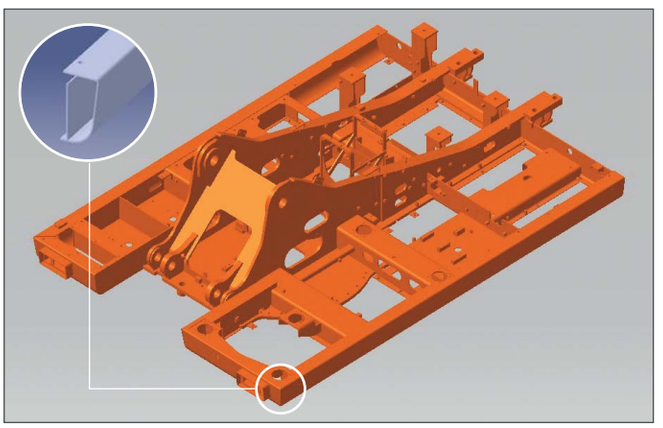


Strengthened Boom
The shape of the boom has been optimized by finite elements design, allowing uniform load distribution throughout the structure. This combined with increased material thickness means improved durability and reliability by limiting element fatigue.

Arm Assembly
In the arm assembly greater strength has been gained by using cast elements and reinforcement around the bosses to give increased life.



Stress Analysis Design using by FEM(Finite Element Method) and Innovative Manufacturing Technique Provides a Strong and Stable Undercarriage
The Chassis Frame, Outrigger Assembly and Dozer Blade have been designed by interpretative techniques and reliability testing using 3 dimension CAD tools, to ensure improved durability and reliability.

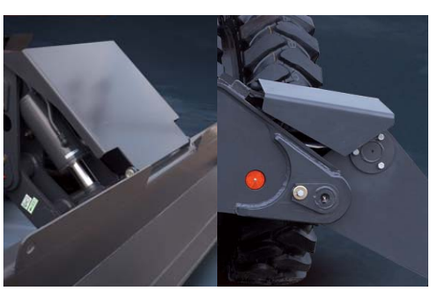


D-type Frame
The D-type frame design adds strength and minimizes distortion due to shocks.

Bushing
A highly lubricated metal is used for the boom pivot in order to increase the lifetime and extend the greasing intervals to 250 hours. A rolled bushing, with very fine grooves, has been added to the arm, bucket, dozer, and outrigger pivot; so greasing is only required every 50 hours.

Polymer shim
A polymer shim is added to the bucket, dozer, and outrigger pivot to promote extended pin and bushing life.

DX210W



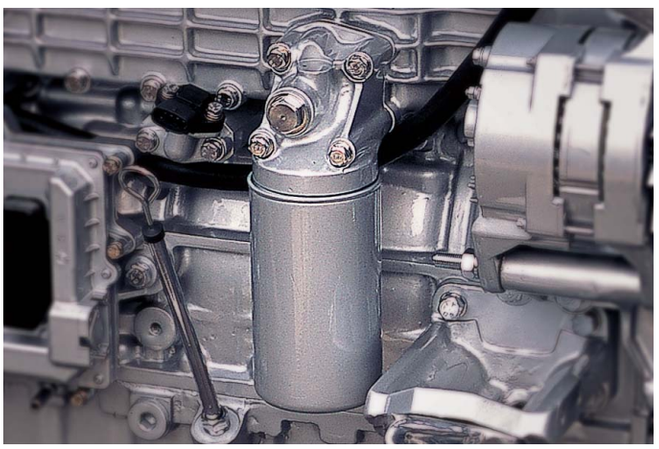
Dozer & Outrigger Cylinders Protection Covers
Large reinforced protective covers have been adopted to completely protect the Dozer & Outrigger cylinders from falling stones etc, while the machine is operating.

Counterweight
Operating stability has been increased by use of a low center of gravity design.

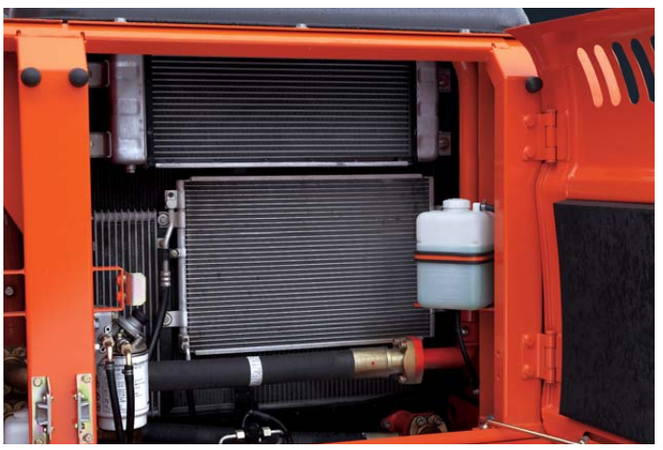
LED (luminescent diode) Type Stop Lamps
The use of LED type Stop Lamps ensures considerably improved average service life compared to the existing standard filament bulbs. Furthermore, the faster lighting speed helps contribute to accident prevention.

MAINTENANCE

Short maintenance operations at long intervals increase the availability of the equipment on site. DOOSAN has developed the DX210W with a view to high profitability for the user.



Engine oil filter
The engine oil filter offers a high level of filtration allowing the oil change interval to be increased to 500 hours. It is easy to access and is positioned to avoid contaminating the surrounding environment.

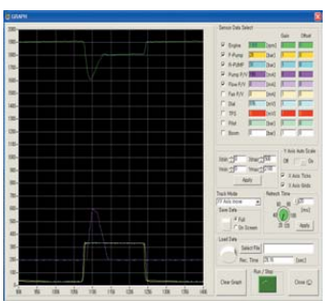


Easy maintenance
Access to the various radiators and coolers is very easy, making cleaning easier. Access to the various parts of the engine is from the top and via side panels.

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.

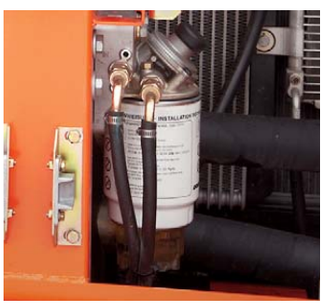
Air cleaner
The large capacity forced air cleaner removes over 99% of airborne particles, reducing the risk of engine contamination and making the cleaning and cartridge change intervals greater.

Tool box and Storage Places
A large sized and lockable tool box is mounted on the left side of undercarriage and the storage places for grease can are provided in the right side of undercarriage.



PC Monitoring (DMS)
A PC monitoring function enables connection to the e-EPOS system, allowing various parameters to be checked during maintenance, such as pump pressures, engine rotation speed, etc. and these can be stored and printed for subsequent analysis.

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.



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

Centralized front axle pin grease inlets for easy maintenance
The grease lubricating position of front axle pin is located in front of equipment for easy accessibility.

DX210W

TECHNICAL SPECIFICATIONS

DX210W

ENGINE

Model

Doosan DL06
"Common Rail" engine with direct fuel injection and electronic control, 4 valves per cylinder, vertical injectors, water cooled, turbo charged with air to air intercooler. The emission levels are well below the values required for stage III.

Number of cylinders

6

Nominal flywheel power

121 kW(162 HP) @ 2,000 rpm (SAE J1349, net)

Max torque

72 kgf.m(706.08 Nm) at 1,400 rpm

Piston displacement

5,890 cc (359 cu.in)

Bore & stroke

Φ100 mm x 125 mm (3.9" X 4.9")

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 231.7 ℓ /min (2 X 61.21 US gpm, 2 X 50.97 lmp gpm)

Pilot pump

Gear pump - max flow: 27.4 ℓ /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)

WEIGHT

Operating weight, including 5,600 mm (18'4") one-piece boom and 3,000 mm (9'10") arm, or 1,920 mm (6'4") +3,840 mm (12'7") two-piece boom and 2,400mm (7'10") arm, operator, lubricant, coolant, full fuel tank and the standard equipment. Weights are with 675kg (1,488 lb)bucket.

Undercarriage type		Operating weight (one-piece boom)	Operating weight (two-piece boom)
Front	Rear		
Outrigger	Dozer	20,760 kg (45,768 lb)	20,460 kg (45,107 lb)
Dozer	Outrigger	20,710 kg (45,658 lb)	20,420 kg (45,018 lb)
Outrigger	Outrigger	20,900 kg (46,077 lb)	20,600 kg (45,415 lb)

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	120 X 85 X 1,225mm(4.7" X 3.3" X 4')
Arm	1	135 X 95 X 1,450mm(5.3" X 3.7" X 4'9")
Bucket	1	120 X 80 X 1,060mm(4.7" X 3.2" X 3'6")

[Two-piece Boom]

Cylinders	Quantity	Bore x Rod diameter x stroke
Boom	2	120 X 85 X 1,045mm(4.7" X 3.3" X 3'5")
Two-piece Boom	1	170 X 105 X 748mm(6.7" X 4.1" X 2'5")
Arm	1	135 X 95 X 1,538mm(5.3" X 3.7" X 5'1")
Bucket	1	120 X 80 X 1,060mm(4.7" X 3.2" X 3'6")

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.
Dozer and outrigger can be installed in front and rear interchangeably.
18.0-19.5-20PR tubeless single and 10.0-20-16PR double tires as an option.

ENVIRONMENT

Noise levels comply with environmental regulations (dynamic values).

- **LWA External sound level**
  103 dB(A) (2000/14/EC)
- **LPA Operator sound level**
  74 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 11 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 (23 mph)
- **Maximum traction force**
  12,325 kgf (27,172 lbf)
- **Maximum grade**
  31° / 60%

REFILL CAPACITIES

- **Fuel tank**
  350 ℓ (92.46 US gal, 76.99 Imp gal)
- **Cooling system (Radiator capacity)**
  24 ℓ (6.34 US gal, 5.28 Imp gal)
- **Engine oil**
  27 ℓ (7.13US gal, 5.94 Imp gal)
- **Swing drive**
  3.8 ℓ (1.00 US gal, 0.84 Imp gal)
- **Power train(each)**
  Front Axle 2.5 ℓ (0.66 US gal, 0.55 Imp gal)
  Rear Axle 2.5 ℓ (0.66 US gal, 0.55 Imp gal)
  Transmission 2.5 ℓ (0.66 US gal, 0.55 Imp gal)
- **Hydraulic system**
  280 ℓ (73.97 US gal, 61.59 Imp gal)
- **Hydraulic tank**
  205 ℓ (54.16US gal, 45.09 Imp gal)

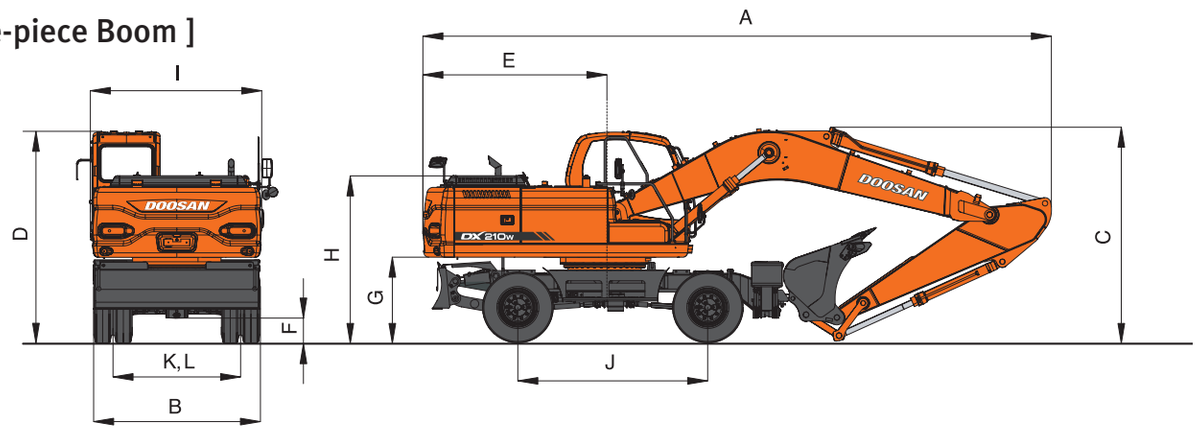
BUCKET

Capacity		Width		Weight	Recommendation					
					5,600mm (18'4") One-piece Boom				5,400mm (17'9") Two-piece Boom	
PCSA, heaped	CECE heaped	Without side cutters	With side cutters		2,000mm (6'7")Arm	2,400mm (7'10")Arm	2,750mm (9')Arm	3,000mm (9'10")Arm	2,000mm (6'7")Arm	2,400mm (7'10")Arm
0.51m³ (0.67yd³)	0.47m³	722mm (2'4")	772mm (2'4")	530 kg (1,168 lb)	A	A	A	A	A	A
0.81m³ (1.06yd³)	0.72m³	1063.5mm (3'6")	1,126mm (3'8")	655 kg (1,444 lb)	A	A	B	B	A	B
0.86m³ (1.13yd³)	0.76m³	1,115mm (3'8")	1,178mm (3'10")	675 kg (1,488 lb)	A	B	B	B	B	B
0.86m³ (1.13yd³)	0.76m³	1,115mm (3'8")	1,179mm (3'10")	696 kg (1,534 lb)	A	B	B	B	B	B
1.05m³ (1.37yd³)	0.92m³	1,307.5mm (4'3")	1,370mm (4'6")	740 kg (1,631 lb)	B	C	C	-	C	-
1.17m³ (1.53yd³)	1.0m³	1,428mm (4'8")	1,491mm (4'11")	795kg (1,753 lb)	C	-	-	-	-	-
1.28m³ (1.67yd³)	1.10m³	1,542mm (5')	1,605mm (5'3")	830 kg (1,830 lb)	C	-	-	-	-	-

A. Suitable for materials with density of 2,000 kg/m³ (3,370 lb/cu · yd) or less
B. Suitable for materials with density of 1,600 kg/m³ (2,700 lb/cu · yd) or less
C. Suitable for materials with density of 1,100 kg/m³ (1,850 lb/cu · yd) or less

DIMENSIONS

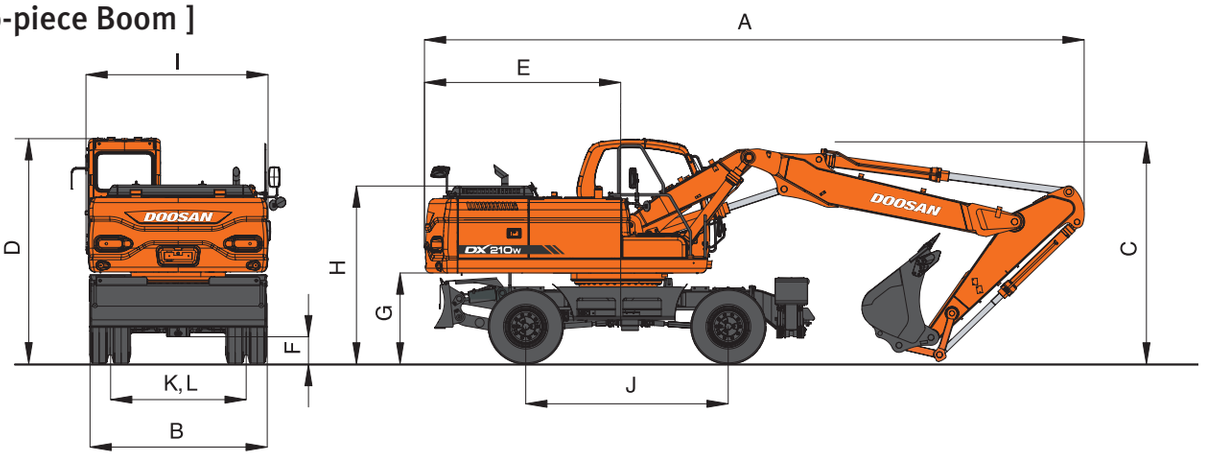
[One-piece Boom]



✻DIMENSIONS

Boom type (One-piece)		5,600mm(18'4")			
Arm type		2,000mm(6'7")	2,400mm(7'10")	2,750mm(9')	3,000mm(9'10")
A	Shipping Length	9,520mm(31'3")	9,470mm(31'1")	9,420mm(30'11")	9,400mm(30'10")
B	Shipping Width	→	→	2,500mm(8'2")	←
C	Shipping Height (Boom)	3,250mm(10'8")	3,200mm(10'6")	3,200mm(10'6")	3,490mm(11'5")
D	Height Over Cab.	→	→	3,140mm(10'4")	←
E	Counter Weight Swing Clearance	→	→	2,750mm(9')	←
F	Ground Clearance	→	→	350mm(1'2")	←
G	Counter Weight Clearance	→	→	1,259mm(4'2")	←
H	Engine Cover Height	→	→	2,485mm(8'2")	←
I	Upper Housing Width	→	→	2,530mm(8'4")	←
J	Wheel Base	→	→	2,850mm(9'4")	←
K, L	Tread Width	→	→	1,914mm(6'3")	←

[Two-piece Boom]



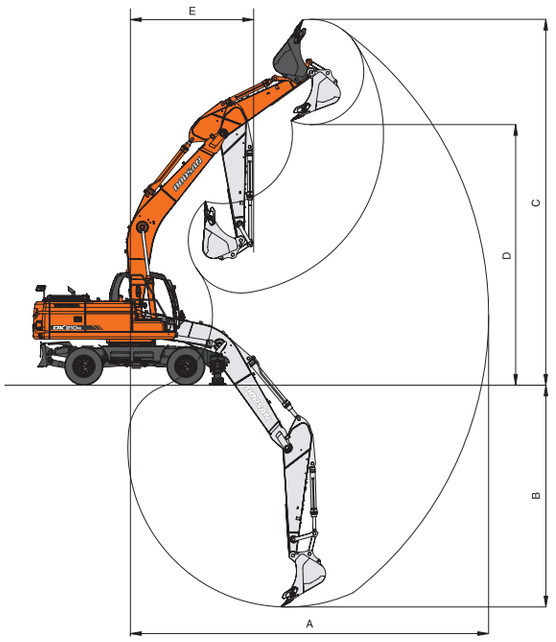
✻DIMENSIONS

Boom type (Two-piece)		5,400mm(17'9")	
Arm type		2,000mm(6'7")	2,400mm(7'10")
A	Shipping Length	9,275mm(30'5")	9,210mm(30'3")
B	Shipping Width	→	2,500mm(8'2")
C	Shipping Height (Boom)	→	3,140mm(10'4")
D	Height Over Cab.	→	3,140mm(10'4")
E	Counter Weight Swing Clearance	→	2,750mm(9')
F	Ground Clearance	→	350mm(1'2")
G	Counter Weight Clearance	→	1,259mm(4'2")
H	Engine Cover Height	→	2,485mm(8'2")
I	Upper Housing Width	→	2,530mm(8'4")
J	Wheel Base	→	2,850mm(9'4")
K, L	Tread Width	→	1,914mm(6'3")

WORKING RANGES

DX210W

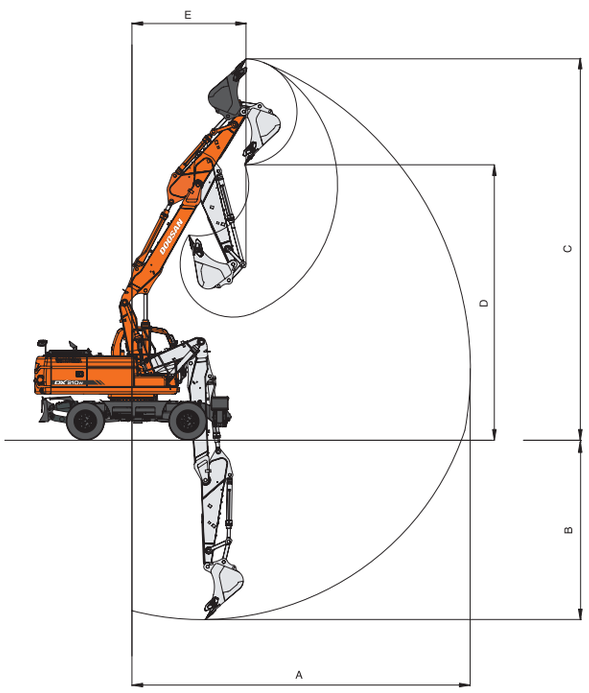
[One-piece Boom]



✻ WORKING RANGE

Boom type (One-piece)	5,600mm(18'4")			
Arm type	2,000mm (6'7")	2,400mm (7'10")	2,750mm (9')	3,000mm (9'10")
A Max. Digging Reach	9,050mm (29'8")	9,430mm (30'11")	9,730mm (31'11")	10,000mm (32'10")
B Max. Digging Depth	5,255mm (17'3")	5,655mm (18'7")	6,010mm (19'9")	6,255mm (20'6")
C Max. Digging Height	9,435mm (30'11")	9,690mm (31'9")	9,800mm (32'2")	10,050mm (32'12")
D Max. Dump Height	6,650mm (21'10")	6,890mm (22'7")	7,020mm (23')	7,250mm (23'9")
E Min. Swing Radius	3,680mm (12'1")	3,390mm (11'1")	3,375mm (11'1")	3,440mm (11'3")

[Two-piece Boom]



✻ WORKING RANGE

Boom type (Two-piece)	5,400mm(17'9")	
Arm type	2,000mm (6'7")	2,400mm (7'10")
A Max. Digging Reach	9,005mm (29'7")	9,405mm (30'10")
B Max. Digging Depth	5,225mm (17'2")	5,625mm (18'5")
C Max. Digging Height	10,210mm (33'6")	10,560mm (34'8")
D Max. Dump Height	7,275mm (23'10")	7,620mm (24'12")
E Min. Swing Radius	3,380mm (11'1")	3,185mm (10'5")

✻ DIGGING FORCE (ISO)

Bucket (PCSA)	0.51m³	0.81m³	0.86m³ (w/cutter)	0.86m³ (w/o cutter)	1.05m³	1.17m³	1.28m³
Digging force	15,200 kgf	15,200 kgf	15,200 kgf	15,200 kgf	15,200 kgf	15,200 kgf	15,200 kgf
	149.06 kN	149.06 kN	149.06 kN	149.06 kN	149.06 kN	149.06 kN	149.06 kN
	33,510 lbf	33,510 lbf	33,510 lbf	33,510 lbf	33,510 lbf	33,510 lbf	33,510 lbf

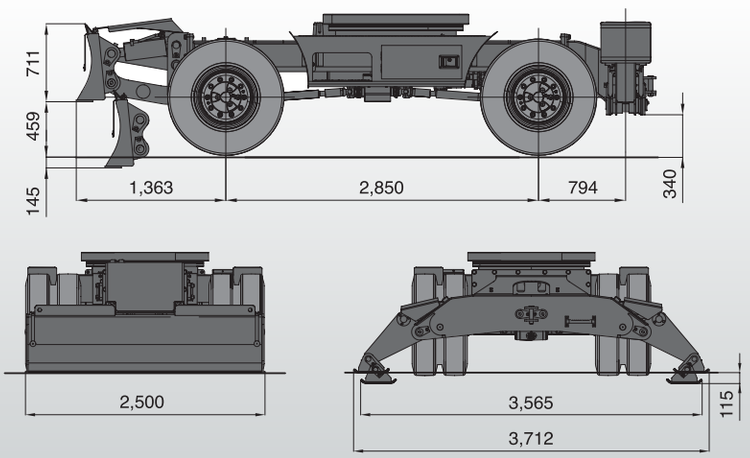
Arm	2,000mm	2,400mm	2,750mm	3,000mm
Digging force	13,400 kgf	11,900 kgf	10,600 kgf	10,200 kgf
	131.41 kN	116.70 kN	103.95 kN	100.03 kN
	29,542 lbf	26,235 lbf	23,369 lbf	22,487 lbf

At power boost (ISO)

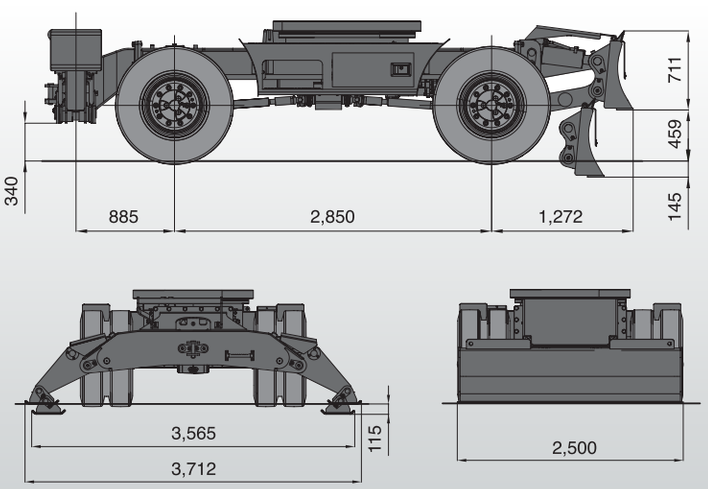
Undercarriage

DX210W

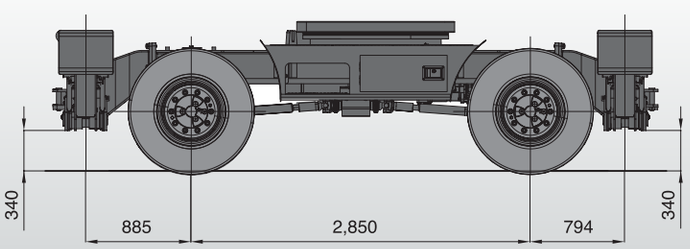
✻ Undercarriage with front dozer and rear outrigger



✻ Undercarriage with front outrigger and rear dozer



✻ Undercarriage with front outrigger and rear outrigger



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

Safety

- 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 horn
- Halogen working lights(frame mounted 2, boom mounted 2)
- Fuel filler pump
- 3.8ton counter weight

Undercarriage

- 10.0-20-14PR double tires
- Heavy duty axles
- Parallel dozer blade & individually controlled 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 availablility 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

Others

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

Cabin & Interior

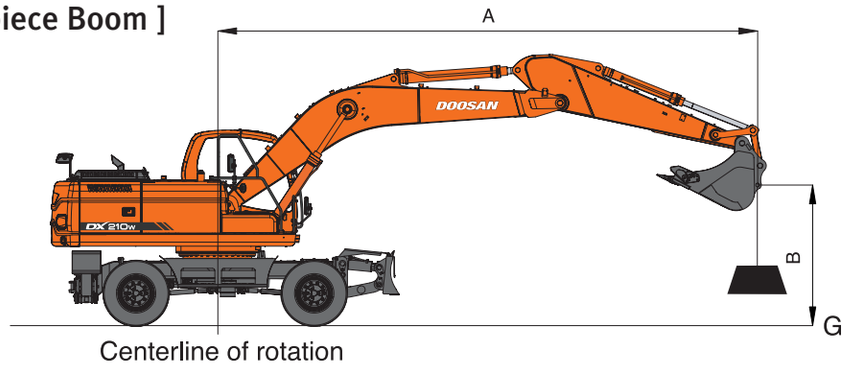
- Air suspension seat
- MP3/CD player
- Rain shield
- 2 front lamps
- 4 front + 2 rear lamps

Undercarriage

- 10.0-20-16PR double tire / 18.0-19.5-20PR single tire

LIFTING CAPACITY

[One-piece Boom]



Boom : 5,600mm(18'4")
Arm : 2,750mm(9')
Bucket : without bucket
Counterweight : 3,800 kg(8,378 lb)

Metric

Unit : 1,000kg

A(m) / B(m)	Chassis Frame Attachment	2		3		4		5		6		7		8		Max. Reach		
																		A(m)
8	F-Dozer + R-Outrigger															*5.68	*5.68	5.24
	F-Outrigger + R-Outrigger															*5.68	*5.68	5.24
7	F-Dozer + R-Outrigger									*5.45	*5.45					*5.44	*5.44	6.24
	F-Outrigger + R-Outrigger									*5.45	*5.45					*5.44	*5.44	6.24
6	F-Dozer + R-Outrigger									*5.48	*5.48					*5.39	5.32	6.95
	F-Outrigger + R-Outrigger									*5.48	*5.48					*5.39	5.37	6.95
5	F-Dozer + R-Outrigger							*6.22	*6.22	*5.76	*5.76	*5.47	5.25			*5.40	4.74	7.46
	F-Outrigger + R-Outrigger							*6.22	*6.22	*5.76	*5.76	*5.47	5.29			*5.40	4.79	7.46
4	F-Dozer + R-Outrigger			*11.02	*11.02	*8.34	*8.34	*7.00	*7.00	*6.20	*6.20	*5.69	5.19			*5.43	4.39	7.81
	F-Outrigger + R-Outrigger			*11.02	*11.02	*8.34	*8.34	*7.00	*7.00	*6.20	*6.20	*5.69	5.24			*5.43	4.44	7.81
3	F-Dozer + R-Outrigger			*3.94	*3.94	*9.91	*9.91	*7.86	*7.86	*6.71	6.46	*5.98	5.13	*5.49	4.20	*5.49	4.19	8.01
	F-Outrigger + R-Outrigger			*3.94	*3.94	*9.91	*9.91	*7.86	*7.86	*6.71	6.52	*5.98	5.17	*5.49	4.24	*5.49	4.23	8.01
2	F-Dozer + R-Outrigger					*11.20	*11.20	*8.65	8.38	*7.19	6.35	*6.26	5.06	*5.61	4.16	*5.57	4.10	8.08
	F-Outrigger + R-Outrigger					*11.20	*11.20	*8.65	8.46	*7.19	6.41	*6.26	5.11	*5.61	4.20	*5.57	4.14	8.08
1	F-Dozer + R-Outrigger			*1.92	*1.92	*11.39	*11.39	*9.19	8.24	*7.55	6.25	*6.47	5.00	*5.68	4.13	*5.66	4.11	8.03
	F-Outrigger + R-Outrigger			*1.92	*1.92	*11.39	*11.39	*9.19	8.31	*7.55	6.31	*6.47	5.05	*5.68	4.17	*5.66	4.15	8.03
O(Ground)	F-Dozer + R-Outrigger			*4.71	*4.71	*11.93	11.79	*9.40	8.15	*7.73	6.19	*6.55	4.96			*5.75	4.23	7.84
	F-Outrigger + R-Outrigger			*4.71	*4.71	*11.93	11.90	*9.40	8.23	*7.73	6.25	*6.55	5.01			*5.75	4.27	7.84
-1	F-Dozer + R-Outrigger	*4.77	*4.77	*7.77	*7.77	*11.58	*11.58	*9.29	8.11	*7.66	6.16	*6.43	4.94			*5.85	4.47	7.52
	F-Outrigger + R-Outrigger	*4.77	*4.77	*7.77	*7.77	*11.58	*11.58	*9.29	8.19	*7.66	6.21	*6.43	4.99			*5.85	4.52	7.52
-2	F-Dozer + R-Outrigger	*8.13	*8.13	*11.42	*11.42	*10.85	*10.85	*8.83	8.12	*7.29	6.16	*5.97	4.95			*5.91	4.92	7.04
	F-Outrigger + R-Outrigger	*8.13	*8.13	*11.42	*11.42	*10.85	*10.85	*8.83	8.19	*7.29	6.22	*5.97	5.00			*5.91	4.96	7.04
-3	F-Dozer + R-Outrigger	*11.85	*11.85	*11.86	*11.86	*9.69	*9.69	*7.95	*7.95	*6.46	6.20					*5.91	5.71	6.36
	F-Outrigger + R-Outrigger	*11.85	*11.85	*11.86	*11.86	*9.69	*9.69	*7.95	*7.95	*6.46	6.26					*5.91	5.77	6.36
-4	F-Dozer + R-Outrigger			*9.52	*9.52	*7.90	*7.90	*6.38	*6.38							*5.71	*5.71	5.41
	F-Outrigger + R-Outrigger			*9.52	*9.52	*7.90	*7.90	*6.38	*6.38							*5.71	*5.71	5.41

Feet

Unit : 1,000lb

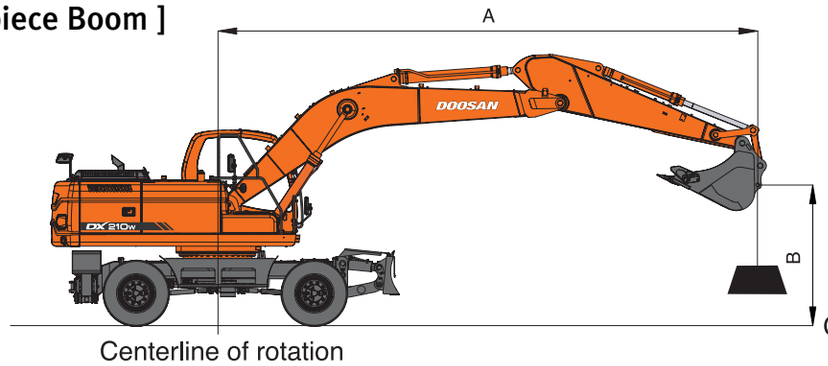
A(ft) / B(ft)	Chassis Frame Attachment	10'		15'		20'		25'		Max. Reach		
												A(ft)
25	F-Dozer + R-Outrigger									*12.26	*12.26	18.58
	F-Outrigger + R-Outrigger									*12.26	*12.26	18.58
20	F-Dozer + R-Outrigger					*12.01	*12.01			*11.88	*11.88	22.62
	F-Outrigger + R-Outrigger					*12.01	*12.01			*11.88	*11.88	22.62
15	F-Dozer + R-Outrigger			*15.18	*15.18	*12.98	*12.98	*11.93	10.09	*11.93	10.08	25.02
	F-Outrigger + R-Outrigger			*15.18	*15.18	*12.98	*12.98	*11.93	10.19	*11.93	10.17	25.02
10	F-Dozer + R-Outrigger	*11.52	*11.52	*18.81	*18.81	*14.55	13.92	*12.45	9.96	*12.10	9.26	26.26
	F-Outrigger + R-Outrigger	*11.52	*11.52	*18.81	*18.81	*14.55	14.05	*12.45	10.06	*12.10	9.35	26.26
5	F-Dozer + R-Outrigger	*2.61	*2.61	*21.81	21.11	*16.02	13.56	*13.03	9.81	*12.37	9.03	26.48
	F-Outrigger + R-Outrigger	*2.61	*2.61	*21.81	21.31	*16.02	13.69	*13.03	9.90	*12.37	9.12	26.48
O(Ground)	F-Dozer + R-Outrigger	*10.91	*10.91	*22.83	20.72	*16.75	13.33	*13.15	9.70	*12.69	9.32	25.74
	F-Outrigger + R-Outrigger	*10.91	*10.91	*22.83	20.91	*16.75	13.46	*13.15	9.80	*12.69	9.41	25.74
-5	F-Dozer + R-Outrigger	*21.63	*21.63	*21.90	20.64	*16.26	13.25			*12.98	10.31	23.92
	F-Outrigger + R-Outrigger	*21.63	*21.63	*21.90	20.84	*16.26	13.38			*12.98	10.41	23.92
-10	F-Dozer + R-Outrigger	*25.69	*25.69	*18.94	*18.94	*13.79	13.38			*13.02	12.71	20.74
	F-Outrigger + R-Outrigger	*25.69	*25.69	*18.94	*18.94	*13.79	13.5			*13.02	12.83	20.74

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

: Rating Over Front
: Rating Over Side or 360 degree

DX210W

[One-piece Boom]



Boom : 5,600mm(18'4")
Arm : 3,000mm(9'10")
Bucket : without bucket
Counterweight :3,800 kg(8,378 lb)

Metric

Unit : 1,000kg

A(m) / B(m)	Chassis Frame Attachment	2		3		4		5		6		7		8		Max. Reach		
																		A(m)
8	F-Dozer + R-Outrigger															*5.41	*5.41	5.66
	F-Outrigger + R-Outrigger															*5.41	*5.41	5.66
7	F-Dozer + R-Outrigger									*5.18	*5.18					*5.19	*5.19	6.60
	F-Outrigger + R-Outrigger									*5.18	*5.18					*5.19	*5.19	6.60
6	F-Dozer + R-Outrigger									*5.24	*5.24	*5.18	*5.18			*5.12	*5.12	7.28
	F-Outrigger + R-Outrigger									*5.24	*5.24	*5.18	*5.18			*5.12	*5.12	7.28
5	F-Dozer + R-Outrigger							*5.94	*5.94	*5.54	*5.54	*5.28	*5.28			*5.15	4.68	7.76
	F-Outrigger + R-Outrigger							*5.94	*5.94	*5.54	*5.54	*5.28	*5.28			*5.15	4.72	7.76
4	F-Dozer + R-Outrigger			*10.16	*10.16	*7.90	*7.90	*6.72	*6.72	*6.00	*6.00	*5.53	5.44	*5.24	4.44	*5.22	4.36	8.09
	F-Outrigger + R-Outrigger			*10.16	*10.16	*7.90	*7.90	*6.72	*6.72	*6.00	*6.00	*5.53	5.49	*5.24	4.48	*5.22	4.40	8.09
3	F-Dozer + R-Outrigger			*7.11	*7.11	*9.49	*9.49	*7.60	*7.60	*6.53	*6.53	*5.84	5.37	*5.37	4.40	*5.27	4.17	8.29
	F-Outrigger + R-Outrigger			*7.11	*7.11	*9.49	*9.49	*7.60	*7.60	*6.53	*6.53	*5.84	5.41	*5.37	4.44	*5.27	4.21	8.29
2	F-Dozer + R-Outrigger					*10.86	*10.86	*8.43	*8.43	*7.04	6.64	*6.15	5.29	*5.53	4.36	*5.34	4.09	8.36
	F-Outrigger + R-Outrigger					*10.86	*10.86	*8.43	*8.43	*7.04	6.70	*6.15	5.34	*5.53	4.40	*5.34	4.13	8.36
1	F-Dozer + R-Outrigger			*2.72	*2.72	*11.67	*11.67	*9.04	8.61	*7.44	6.53	*6.39	5.22	*5.64	4.32	*5.43	4.09	8.31
	F-Outrigger + R-Outrigger			*2.72	*2.72	*11.67	*11.67	*9.04	8.68	*7.44	6.59	*6.39	5.27	*5.64	4.36	*5.43	4.13	8.31
O(Ground)	F-Dozer + R-Outrigger			*4.69	*4.69	*11.90	*11.90	*9.33	8.50	*7.67	6.46	*6.52	5.17	*5.63	4.29	*5.52	4.20	8.13
	F-Outrigger + R-Outrigger			*4.69	*4.69	*11.90	*11.90	*9.33	8.58	*7.67	6.52	*6.52	5.22	*5.63	4.33	*5.52	4.24	8.13
-1	F-Dozer + R-Outrigger	*4.40	*4.40	*7.28	*7.28	*11.67	*11.67	*9.30	8.45	*7.66	6.42	*6.46	5.15			*5.60	4.42	7.82
	F-Outrigger + R-Outrigger	*4.40	*4.40	*7.28	*7.28	*11.67	*11.67	*9.30	8.52	*7.66	6.48	*6.46	5.20			*5.60	4.46	7.82
-2	F-Dozer + R-Outrigger	*7.36	*7.36	*10.52	*10.52	*11.05	*11.05	*8.94	8.44	*7.38	6.41	*6.12	5.15			*5.67	4.82	7.36
	F-Outrigger + R-Outrigger	*7.36	*7.36	*10.52	*10.52	*11.05	*11.05	*8.94	8.52	*7.38	6.47	*6.12	5.20			*5.67	4.86	7.36
-3	F-Dozer + R-Outrigger	*10.73	*10.73	*12.44	*12.44	*10.01	*10.01	*8.18	*8.18	*6.70	6.44					*5.68	5.51	6.71
	F-Outrigger + R-Outrigger	*10.73	*10.73	*12.44	*12.44	*10.01	*10.01	*8.18	*8.18	*6.70	6.50					*5.68	5.56	6.71
-4	F-Dozer + R-Outrigger			*10.26	*10.26	*8.40	*8.40	*6.83	*6.83							*5.54	*5.54	5.82
	F-Outrigger + R-Outrigger			*10.26	*10.26	*8.40	*8.40	*6.83	*6.83							*5.54	*5.54	5.82

Feet

Unit : 1,000lb

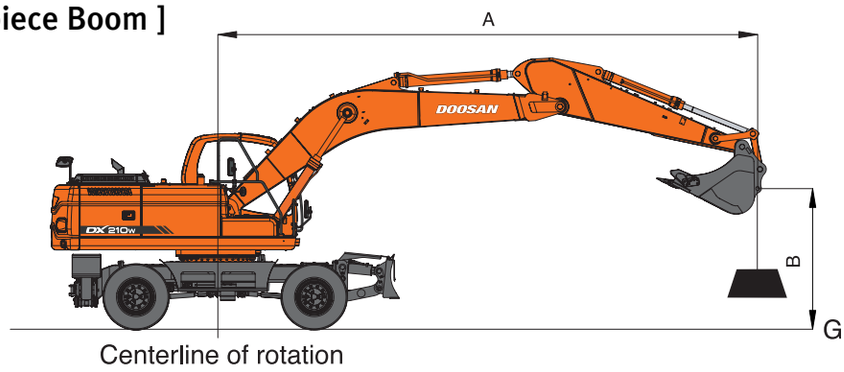
A(ft) / B(ft)	Chassis Frame Attachment	10'		15'		20'		25'		Max. Reach		
												A(ft)
25	F-Dozer + R-Outrigger									*11.68	*11.68	19.87
	F-Outrigger + R-Outrigger									*11.68	*11.68	19.87
20	F-Dozer + R-Outrigger					*11.50	*11.50			*11.29	*11.29	23.69
	F-Outrigger + R-Outrigger					*11.50	*11.50			*11.29	*11.29	23.69
15	F-Dozer + R-Outrigger			*14.45	*14.45	*12.53	*12.53	*11.55	10.59	*11.45	9.96	25.99
	F-Outrigger + R-Outrigger			*14.45	*14.45	*12.53	*12.53	*11.55	10.68	*11.45	10.06	25.99
10	F-Dozer + R-Outrigger	*19.62	*19.62	*18.12	*18.12	*14.16	*14.16	*12.17	10.43	*11.62	9.21	27.18
	F-Outrigger + R-Outrigger	*19.62	*19.62	*18.12	*18.12	*14.16	*14.16	*12.17	10.53	*11.62	9.29	27.18
5	F-Dozer + R-Outrigger	*5.52	*5.52	*21.33	*21.33	*15.73	14.18	*12.85	10.26	*11.87	8.99	27.40
	F-Outrigger + R-Outrigger	*5.52	*5.52	*21.33	*21.33	*15.73	14.31	*12.85	10.35	*11.87	9.08	27.40
O(Ground)	F-Dozer + R-Outrigger	*10.83	*10.83	*22.69	21.60	*16.62	13.91	*13.12	10.13	*12.16	9.26	26.67
	F-Outrigger + R-Outrigger	*10.83	*10.83	*22.69	21.80	*16.62	14.04	*13.12	10.22	*12.16	9.35	26.67
-5	F-Dozer + R-Outrigger	*20.06	*20.06	*22.09	21.48	*16.37	13.80			*12.43	10.15	24.92
	F-Outrigger + R-Outrigger	*20.06	*20.06	*22.09	21.68	*16.37	13.93			*12.43	10.24	24.92
-10	F-Dozer + R-Outrigger	*26.93	*26.93	*19.52	*19.52	*14.36	13.89			*12.51	12.24	21.90
	F-Outrigger + R-Outrigger	*26.93	*26.93	*19.52	*19.52	*14.36	14.02			*12.51	12.35	21.90
-15	F-Dozer + R-Outrigger			*13.74	*13.74					*11.69	*11.69	16.90
	F-Outrigger + R-Outrigger			*13.74	*13.74					*11.69	*11.69	16.90

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

: Rating Over Front
: Rating Over Side or 360 degree

LIFTING CAPACITY

[One-piece Boom]



Boom : 5,600mm(18'4")
Arm : 2,400mm(7'10")
Bucket : without bucket
Counterweight :3,800 kg(8,378 lb)

Metric

Unit : 1,000kg

A(m) / B(m)	Chassis Frame Attachment	2		3		4		5		6		7		Max. Reach		
																A(m)
8	F-Dozer + R-Outrigger													*6.20	*6.20	4.81
	F-Outrigger + R-Outrigger													*6.20	*6.20	4.81
7	F-Dozer + R-Outrigger							*5.88	*5.88					*5.87	*5.87	5.89
	F-Outrigger + R-Outrigger							*5.88	*5.88					*5.87	*5.87	5.89
6	F-Dozer + R-Outrigger							*6.07	*6.07	*5.80	*5.80			*5.74	*5.74	6.64
	F-Outrigger + R-Outrigger							*6.07	*6.07	*5.80	*5.80			*5.74	*5.74	6.64
5	F-Dozer + R-Outrigger					*7.51	*7.51	*6.60	*6.60	*6.04	*6.04	*5.73	5.45	*5.70	5.24	7.17
	F-Outrigger + R-Outrigger					*7.51	*7.51	*6.60	*6.60	*6.04	*6.04	*5.73	5.50	*5.70	5.29	7.17
4	F-Dozer + R-Outrigger			*12.32	*12.32	*8.92	*8.92	*7.35	*7.35	*6.45	*6.45	*5.90	5.40	*5.71	4.83	7.53
	F-Outrigger + R-Outrigger			*12.32	*12.32	*8.92	*8.92	*7.35	*7.35	*6.45	*6.45	*5.90	5.45	*5.71	4.88	7.53
3	F-Dozer + R-Outrigger					*10.45	*10.45	*8.18	*8.18	*6.93	6.72	*6.15	5.34	*5.75	4.60	7.74
	F-Outrigger + R-Outrigger					*10.45	*10.45	*8.18	*8.18	*6.93	6.78	*6.15	5.39	*5.75	4.65	7.74
2	F-Dozer + R-Outrigger					*10.27	*10.27	*8.89	8.72	*7.36	6.61	*6.39	5.28	*5.81	4.50	7.82
	F-Outrigger + R-Outrigger					*10.27	*10.27	*8.89	8.79	*7.36	6.67	*6.39	5.33	*5.81	4.55	7.82
1	F-Dozer + R-Outrigger					*9.00	*9.00	*9.32	8.59	*7.66	6.53	*6.55	5.23	*5.89	4.52	7.76
	F-Outrigger + R-Outrigger					*9.00	*9.00	*9.32	8.66	*7.66	6.59	*6.55	5.28	*5.89	4.56	7.76
O(Ground)	F-Dozer + R-Outrigger			*2.96	*2.96	*11.08	*11.08	*9.41	8.52	*7.75	6.47	*6.55	5.20	*5.96	4.66	7.57
	F-Outrigger + R-Outrigger			*2.96	*2.96	*11.08	*11.08	*9.41	8.59	*7.75	6.53	*6.55	5.24	*5.96	4.71	7.57
-1	F-Dozer + R-Outrigger			*7.40	*7.40	*11.30	*11.30	*9.18	8.49	*7.58	6.45	*6.31	5.19	*6.02	4.96	7.23
	F-Outrigger + R-Outrigger			*7.40	*7.40	*11.30	*11.30	*9.18	8.57	*7.58	6.51	*6.31	5.24	*6.02	5.01	7.23
-2	F-Dozer + R-Outrigger	*8.47	*8.47	*12.13	*12.13	*10.43	*10.43	*8.59	8.52	*7.07	6.47			*6.03	5.51	6.73
	F-Outrigger + R-Outrigger	*8.47	*8.47	*12.13	*12.13	*10.43	*10.43	*8.59	8.59	*7.07	6.53			*6.03	5.56	6.73
-3	F-Dozer + R-Outrigger			*10.87	*10.87	*9.11	*9.11	*7.52	*7.52	*5.95	*5.95			*5.93	*5.93	6.01
	F-Outrigger + R-Outrigger			*10.87	*10.87	*9.11	*9.11	*7.52	*7.52	*5.95	*5.95			*5.93	*5.93	6.01
-4	F-Dozer + R-Outrigger					*7.03	*7.03							*5.50	*5.50	5.00
	F-Outrigger + R-Outrigger					*7.03	*7.03							*5.50	*5.50	5.00

Feet

Unit : 1,000lb

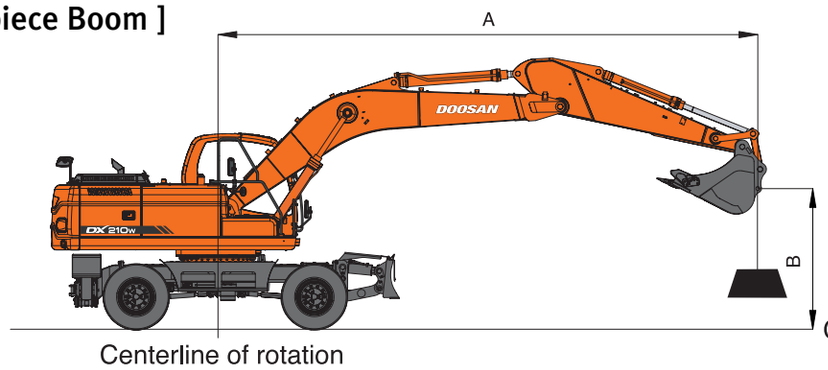
A(ft) / B(ft)	Chassis Frame Attachment	10'		15'		20'		25'		Max. Reach		
												A(ft)
25	F-Dozer + R-Outrigger									*13.31	*13.31	17.30
	F-Outrigger + R-Outrigger									*13.31	*13.31	17.30
20	F-Dozer + R-Outrigger					*12.74	*12.74			*12.68	*12.68	21.59
	F-Outrigger + R-Outrigger					*12.74	*12.74			*12.68	*12.68	21.59
15	F-Dozer + R-Outrigger	*22.43	*22.43	*16.15	*16.15	*13.57	*13.57			*12.57	11.12	24.09
	F-Outrigger + R-Outrigger	*22.43	*22.43	*16.15	*16.15	*13.57	*13.57			*12.57	11.22	24.09
10	F-Dozer + R-Outrigger			*19.67	*19.67	*15.03	14.48	*12.79	10.39	*12.68	10.17	25.37
	F-Outrigger + R-Outrigger			*19.67	*19.67	*15.03	14.61	*12.79	10.49	*12.68	10.26	25.37
5	F-Dozer + R-Outrigger			*22.29	21.96	*16.32	14.15	*13.19	10.26	*12.89	9.92	25.61
	F-Outrigger + R-Outrigger			*22.29	22.15	*16.32	14.28	*13.19	10.36	*12.89	10.01	25.61
O(Ground)	F-Dozer + R-Outrigger	*7.27	*7.27	*22.80	21.65	*16.80	13.95			*13.14	10.28	24.83
	F-Outrigger + R-Outrigger	*7.27	*7.27	*22.80	21.85	*16.80	14.08			*13.14	10.38	24.83
-5	F-Dozer + R-Outrigger	*22.07	*22.07	*21.40	*21.40	*15.95	13.92			*13.30	11.49	22.94
	F-Outrigger + R-Outrigger	*22.07	*22.07	*21.40	*21.40	*15.95	14.04			*13.30	11.59	22.94
-10	F-Dozer + R-Outrigger	*23.55	*23.55	*17.87	*17.87					*13.04	*13.04	19.60
	F-Outrigger + R-Outrigger	*23.55	*23.55	*17.87	*17.87					*13.04	*13.04	19.60

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

: Rating Over Front
: Rating Over Side or 360 degree

DX210W

[One-piece Boom]



Boom : 5,600mm(18'4")
Arm : 2,000mm(6'7")
Bucket : without bucket
Counterweight :3,800 kg(8,378 lb)

Metric

Unit : 1,000kg

A(m) / B(m)	Chassis Frame Attachment	3		4		5		6		7		Max. Reach		
														A(m)
7	F-Dozer + R-Outrigger					*6.37	*6.37					*6.35	*6.35	5.40
	F-Outrigger + R-Outrigger					*6.37	*6.37					*6.35	*6.35	5.40
6	F-Dozer + R-Outrigger					*6.49	*6.49	*6.17	*6.17			*6.15	*6.15	6.21
	F-Outrigger + R-Outrigger					*6.49	*6.49	*6.17	*6.17			*6.15	*6.15	6.21
5	F-Dozer + R-Outrigger	*10.28	*10.28	*8.11	*8.11	*6.99	*6.99	*6.34	*6.34			*6.07	5.68	6.77
	F-Outrigger + R-Outrigger	*10.28	*10.28	*8.11	*8.11	*6.99	*6.99	*6.34	*6.34			*6.07	5.73	6.77
4	F-Dozer + R-Outrigger			*9.57	*9.57	*7.73	*7.73	*6.71	*6.71	*6.12	5.36	*6.06	5.19	7.15
	F-Outrigger + R-Outrigger			*9.57	*9.57	*7.73	*7.73	*6.71	*6.71	*6.12	5.41	*6.06	5.23	7.15
3	F-Dozer + R-Outrigger			*11.07	*11.07	*8.51	*8.51	*7.15	6.68	*6.31	5.31	*6.09	4.92	7.37
	F-Outrigger + R-Outrigger			*11.07	*11.07	*8.51	*8.51	*7.15	6.74	*6.31	5.36	*6.09	4.96	7.37
2	F-Dozer + R-Outrigger			*5.60	*5.60	*9.12	8.68	*7.52	6.59	*6.50	5.26	*6.14	4.80	7.45
	F-Outrigger + R-Outrigger			*5.60	*5.60	*9.12	8.75	*7.52	6.65	*6.50	5.31	*6.14	4.85	7.45
1	F-Dozer + R-Outrigger			*6.49	*6.49	*9.42	8.57	*7.74	6.52	*6.58	5.22	*6.20	4.83	7.39
	F-Outrigger + R-Outrigger			*6.49	*6.49	*9.42	8.65	*7.74	6.58	*6.58	5.27	*6.20	4.88	7.39
0(Ground)	F-Dozer + R-Outrigger			*10.27	*10.27	*9.38	8.53	*7.73	6.48	*6.49	5.20	*6.26	5.01	7.19
	F-Outrigger + R-Outrigger			*10.27	*10.27	*9.38	8.60	*7.73	6.54	*6.49	5.25	*6.26	5.05	7.19
-1	F-Dozer + R-Outrigger	*7.06	*7.06	*10.90	*10.90	*9.00	8.52	*7.44	6.47			*6.29	5.38	6.84
	F-Outrigger + R-Outrigger	*7.06	*7.06	*10.90	*10.90	*9.00	8.60	*7.44	6.53			*6.29	5.43	6.84
-2	F-Dozer + R-Outrigger	*11.43	*11.43	*9.89	*9.89	*8.24	*8.24	*6.73	6.50			*6.24	6.07	6.30
	F-Outrigger + R-Outrigger	*11.43	*11.43	*9.89	*9.89	*8.24	*8.24	*6.73	6.56			*6.24	6.12	6.30
-3	F-Dozer + R-Outrigger	*9.65	*9.65	*8.36	*8.36	*6.90	*6.90					*6.01	*6.01	5.53
	F-Outrigger + R-Outrigger	*9.65	*9.65	*8.36	*8.36	*6.90	*6.90					*6.01	*6.01	5.53

Feet

Unit : 1,000lb

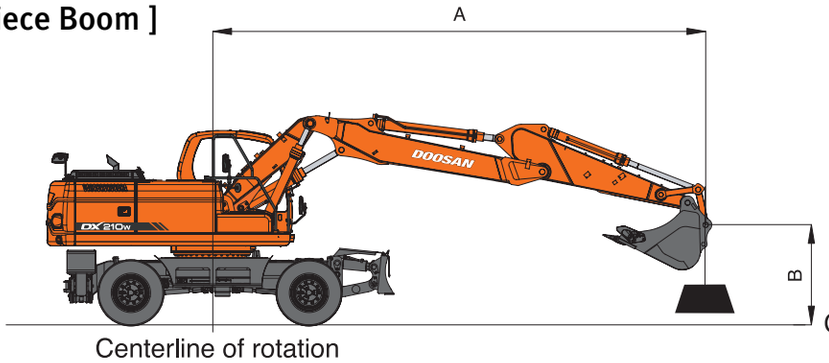
A(ft) / B(ft)	Chassis Frame Attachment	10'		15'		20'		Max. Reach		
										A(ft)
25	F-Dozer + R-Outrigger			*14.58	*14.58			*14.59	*14.59	15.46
	F-Outrigger + R-Outrigger			*14.58	*14.58			*14.59	*14.59	15.46
20	F-Dozer + R-Outrigger			*14.68	*14.68	*13.59	*13.59	*13.59	*13.59	20.15
	F-Outrigger + R-Outrigger			*14.68	*14.68	*13.59	*13.59	*13.59	*13.59	20.15
15	F-Dozer + R-Outrigger	*25.33	*25.33	*17.16	*17.16	*14.18	*14.18	*13.37	11.98	22.82
	F-Outrigger + R-Outrigger	*25.33	*25.33	*17.16	*17.16	*14.18	*14.18	*13.37	12.08	22.82
10	F-Dozer + R-Outrigger			*20.58	*20.58	*15.50	14.39	*13.42	10.86	24.17
	F-Outrigger + R-Outrigger			*20.58	*20.58	*15.50	14.52	*13.42	10.96	24.17
5	F-Dozer + R-Outrigger			*22.73	21.89	*16.59	14.11	*13.60	10.58	24.42
	F-Outrigger + R-Outrigger			*22.73	22.09	*16.59	14.24	*13.60	10.68	24.42
0(Ground)	F-Dozer + R-Outrigger			*22.62	21.69	*16.76	13.95	*13.79	11.04	23.60
	F-Outrigger + R-Outrigger			*22.62	21.89	*16.76	14.08	*13.79	11.14	23.60
-5	F-Dozer + R-Outrigger	*23.55	*23.55	*20.69	*20.69	*15.43	13.97	*13.84	12.53	21.60
	F-Outrigger + R-Outrigger	*23.55	*23.55	*20.69	*20.69	*15.43	14.10	*13.84	12.65	21.60
-10	F-Dozer + R-Outrigger	*20.92	*20.92	*16.42	*16.42			*13.20	*13.20	18.00
	F-Outrigger + R-Outrigger	*20.92	*20.92	*16.42	*16.42			*13.20	*13.20	18.00

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

: Rating Over Front
: Rating Over Side or 360 degree

LIFTING CAPACITY

[Two-piece Boom]



Boom : 5,400mm(17'9")
Arm : 2,400mm(7'10")
Bucket : without bucket
Counterweight : 3,400 kg(7,496 lb)

Metric

Unit : 1,000kg

A(m) / B(m)	Chassis Frame Attachment	2		3		4		5		6		7		Max. Reach		
																A(m)
8	F-Dozer + R-Outrigger													*6.20	*6.20	4.81
	F-Outrigger + R-Outrigger													*6.20	*6.20	4.81
7	F-Dozer + R-Outrigger							*5.88	*5.88					*5.87	4.85	5.89
	F-Outrigger + R-Outrigger							*5.88	*5.88					*5.87	*5.87	5.89
6	F-Dozer + R-Outrigger							*6.07	*6.07	*5.80	4.72			*5.74	4.02	6.64
	F-Outrigger + R-Outrigger							*6.07	*6.07	*5.80	*5.80			*5.74	5.74	6.64
5	F-Dozer + R-Outrigger					*7.51	*7.51	*6.60	6.12	*6.04	4.66	*5.73	3.69	*5.70	3.55	7.17
	F-Outrigger + R-Outrigger					*7.51	*7.51	*6.60	*6.60	*6.04	*6.04	*5.73	5.26	*5.70	5.06	7.17
4	F-Dozer + R-Outrigger			*12.32	*12.32	*8.92	8.32	*7.35	5.96	*6.45	4.57	*5.90	3.65	*5.71	3.27	7.53
	F-Outrigger + R-Outrigger			*12.32	*12.32	*8.92	*8.92	*7.35	*7.35	*6.45	*6.45	*5.90	5.22	*5.71	4.67	7.53
3	F-Dozer + R-Outrigger					*10.45	7.97	*8.18	5.78	*6.93	4.47	*6.15	3.59	*5.75	3.10	7.74
	F-Outrigger + R-Outrigger					*10.45	*10.45	*8.18	*8.18	*6.93	6.49	*6.15	5.16	*5.75	4.44	7.74
2	F-Dozer + R-Outrigger					*10.27	7.70	*8.89	5.62	*7.36	4.37	*6.39	3.54	*5.81	3.03	7.82
	F-Outrigger + R-Outrigger					*10.27	*10.27	*8.89	8.42	*7.36	6.39	*6.39	5.10	*5.81	4.34	7.82
1	F-Dozer + R-Outrigger					*9.00	7.56	*9.32	5.51	*7.66	4.30	*6.55	3.49	*5.89	3.03	7.76
	F-Outrigger + R-Outrigger					*9.00	*9.00	*9.32	8.29	*7.66	6.30	*6.55	5.04	*5.89	4.36	7.76
0(Ground)	F-Dozer + R-Outrigger			*2.96	*2.96	*11.08	7.51	*9.41	5.45	*7.75	4.25	*6.55	3.46	*5.96	3.12	7.57
	F-Outrigger + R-Outrigger			*2.96	*2.96	*11.08	*11.08	*9.41	8.22	*7.75	6.25	*6.55	5.01	*5.96	4.50	7.57
-1	F-Dozer + R-Outrigger			*7.40	*7.40	*11.30	7.51	*9.18	5.43	*7.58	4.23	*6.31	3.45	*6.02	3.31	7.23
	F-Outrigger + R-Outrigger			*7.40	*7.40	*11.30	*11.30	*9.18	8.20	*7.58	6.23	*6.31	5.01	*6.02	4.79	7.23
-2	F-Dozer + R-Outrigger	*8.47	*8.47	*12.13	*12.13	*10.43	7.56	*8.59	5.45	*7.07	4.24			*6.03	3.66	6.73
	F-Outrigger + R-Outrigger	*8.47	*8.47	*12.13	*12.13	*10.43	*10.43	*8.59	8.22	*7.07	6.24			*6.03	5.31	6.73

Feet

Unit : 1,000lb

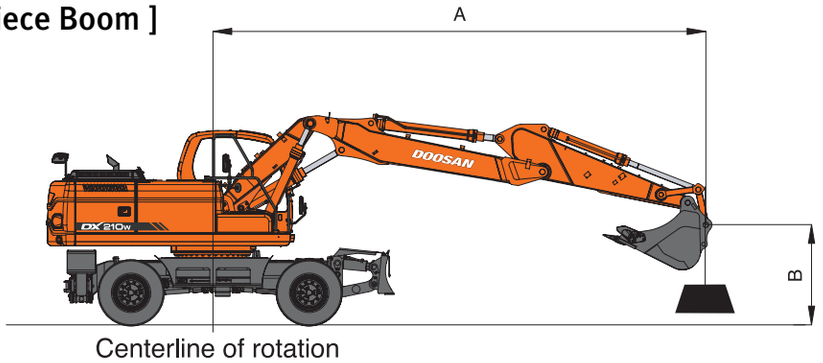
A(ft) / B(ft)	Chassis Frame Attachment	10'		15'		20'		25'		Max. Reach		
												A(ft)
25	F-Dozer + R-Outrigger									*13.31	12.69	17.30
	F-Outrigger + R-Outrigger									*13.31	*13.31	17.30
20	F-Dozer + R-Outrigger					*12.74	10.15			*12.68	9.00	21.59
	F-Outrigger + R-Outrigger					*12.74	*12.74			*12.68	*12.68	21.59
15	F-Dozer + R-Outrigger	*22.43	*22.43	*16.15	15.28	*13.57	9.96			*12.57	7.52	24.09
	F-Outrigger + R-Outrigger	*22.43	*22.43	*16.15	*16.15	*13.57	*13.57			*12.57	10.73	24.09
10	F-Dozer + R-Outrigger			*19.67	14.50	*15.03	9.65	*12.79	7.01	*12.68	6.86	25.37
	F-Outrigger + R-Outrigger			*19.67	*19.67	*15.03	13.99	*12.79	10.03	*12.68	9.81	25.37
5	F-Dozer + R-Outrigger			*22.29	13.88	*16.32	9.35	*13.19	6.89	*12.89	6.66	25.61
	F-Outrigger + R-Outrigger			*22.29	21.20	*16.32	13.66	*13.19	9.90	*12.89	9.56	25.61
0(Ground)	F-Dozer + R-Outrigger	*7.27	*7.27	*22.80	13.62	*16.80	9.17			*13.14	6.88	24.83
	F-Outrigger + R-Outrigger	*7.27	*7.27	*22.80	20.90	*16.80	13.46			*13.14	9.91	24.83
-5	F-Dozer + R-Outrigger	*22.07	*22.07	*21.40	13.61	*15.95	9.14			*13.30	7.65	22.94
	F-Outrigger + R-Outrigger	*22.07	*22.07	*21.40	20.89	*15.95	13.42			*13.30	11.08	22.94
-10	F-Dozer + R-Outrigger	*23.55	*23.55	*17.87	13.81					*13.04	9.56	19.60
	F-Outrigger + R-Outrigger	*23.55	*23.55	*17.87	*17.87					*13.04	*13.04	19.60

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

: Rating Over Front
: Rating Over Side or 360 degree

DX210W

[Two-piece Boom]



Boom : 5,400mm(17'9")
Arm : 2,000mm(6'7")
Bucket : without bucket
Counterweight : 3,400 kg(7,496 lb)

Metric

Unit : 1,000kg

A(m) / B(m)	Chassis Frame Attachment	3		4		5		6		7		Max. Reach		
														A(m)
7	F-Dozer + R-Outrigger					*6.37	6.14					*6.35	5.44	5.40
	F-Outrigger + R-Outrigger					*6.37	*6.37					*6.35	*6.35	5.40
6	F-Dozer + R-Outrigger					*6.49	6.11	*6.17	4.61			*6.15	4.36	6.21
	F-Outrigger + R-Outrigger					*6.49	*6.49	*6.17	*6.17			*6.15	*6.15	6.21
5	F-Dozer + R-Outrigger	*10.28	*10.28	*8.11	*8.11	*6.99	6.00	*6.34	4.56			*6.07	3.79	6.77
	F-Outrigger + R-Outrigger	*10.28	*10.28	*8.11	*8.11	*6.99	*6.99	*6.34	*6.34			*6.07	5.43	6.77
4	F-Dozer + R-Outrigger			*9.57	8.12	*7.73	5.84	*6.71	4.49	*6.12	3.58	*6.06	3.46	7.15
	F-Outrigger + R-Outrigger			*9.57	*9.57	*7.73	*7.73	*6.71	6.49	*6.12	5.13	*6.06	4.96	7.15
3	F-Dozer + R-Outrigger			*11.07	7.79	*8.51	5.68	*7.15	4.39	*6.31	3.53	*6.09	3.27	7.37
	F-Outrigger + R-Outrigger			*11.07	*11.07	*8.51	8.46	*7.15	6.39	*6.31	5.08	*6.09	4.70	7.37
2	F-Dozer + R-Outrigger			*5.60	*5.60	*9.12	5.54	*7.52	4.31	*6.50	3.48	*6.14	3.19	7.45
	F-Outrigger + R-Outrigger			*5.60	*5.60	*9.12	8.30	*7.52	6.30	*6.50	5.03	*6.14	4.59	7.45
1	F-Dozer + R-Outrigger			*6.49	*6.49	*9.42	5.45	*7.74	4.25	*6.58	3.45	*6.20	3.20	7.39
	F-Outrigger + R-Outrigger			*6.49	*6.49	*9.42	8.20	*7.74	6.23	*6.58	4.99	*6.20	4.61	7.39
0(Ground)	F-Dozer + R-Outrigger			*10.27	7.48	*9.38	5.41	*7.73	4.21	*6.49	3.43	*6.26	3.31	7.19
	F-Outrigger + R-Outrigger			*10.27	*10.27	*9.38	8.15	*7.73	6.19	*6.49	4.97	*6.26	4.78	7.19
-1	F-Dozer + R-Outrigger	*7.06	*7.06	*10.90	7.51	*9.00	5.41	*7.44	4.21			*6.29	3.54	6.84
	F-Outrigger + R-Outrigger	*7.06	*7.06	*10.90	*10.90	*9.00	8.15	*7.44	6.18			*6.29	5.14	6.84
-2	F-Dozer + R-Outrigger	*11.43	*11.43	*9.89	7.56	*8.24	5.44	*6.73	4.24			*6.24	3.97	6.30
	F-Outrigger + R-Outrigger	*11.43	*11.43	*9.89	*9.89	*8.24	8.18	*6.73	6.22			*6.24	5.80	6.30

Feet

Unit : 1,000lb

A(ft) / B(ft)	Chassis Frame Attachment	10'		15'		20'		Max. Reach		
										A(ft)
25	F-Dozer + R-Outrigger			*14.58	*14.58			*14.59	*14.59	15.46
	F-Outrigger + R-Outrigger			*14.58	*14.58			*14.59	*14.59	15.46
20	F-Dozer + R-Outrigger			*14.68	*14.68	*13.59	9.91	*13.59	9.79	20.15
	F-Outrigger + R-Outrigger			*14.68	*14.68	*13.59	*13.59	*13.59	*13.59	20.15
15	F-Dozer + R-Outrigger	*25.33	*25.33	*17.16	14.95	*14.18	9.76	*13.37	8.00	22.82
	F-Outrigger + R-Outrigger	*25.33	*25.33	*17.16	*17.16	*14.18	14.08	*13.37	11.46	22.82
10	F-Dozer + R-Outrigger			*20.58	14.23	*15.50	9.48	*13.42	7.23	24.17
	F-Outrigger + R-Outrigger			*20.58	*20.58	*15.50	13.77	*13.42	10.38	24.17
5	F-Dozer + R-Outrigger			*22.73	13.71	*16.59	9.23	*13.60	7.02	24.42
	F-Outrigger + R-Outrigger			*22.73	20.94	*16.59	13.49	*13.60	10.11	24.42
0(Ground)	F-Dozer + R-Outrigger			*22.62	13.54	*16.76	9.09	*13.79	7.29	23.60
	F-Outrigger + R-Outrigger			*22.62	20.74	*16.76	13.33	*13.79	10.54	23.60
-5	F-Dozer + R-Outrigger	*23.55	*23.55	*20.69	13.58	*15.43	9.10	*13.84	8.23	21.60
	F-Outrigger + R-Outrigger	*23.55	*23.55	*20.69	*20.69	*15.43	13.35	*13.84	11.97	21.60
-10	F-Dozer + R-Outrigger	*20.92	*20.92	*16.42	13.82			*13.20	10.72	18.00
	F-Outrigger + R-Outrigger	*20.92	*20.92	*16.42	*16.42			*13.20	*13.20	18.00

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

: Rating Over Front
: Rating Over Side or 360 degree