

DX210W









HEAVY-DUTY FRONT

- Overall reinforcement of steel plate by increasing thickness. (Side plate 20%, Bottom 15%)
- Reinforced boom-end bracket and enlarged armcenter boss
- Enlarged arm-end boss and reinforcement plate with abrasion-resistant beams.



ADVANCED FRONT BUSH

- EM bushing (Enhanced Macro-surface)
- Pocket & Dimple surface pattern : Optimized greasing & Trap foreign object
- Wear resistant solid lubricant coating : Noise free & enhanced anti-seizure property
- 30% longer life time than competitors



ADVANCED H-CLASS BUCKET

- Doosan new H-class bucket has the best strength of steel & the optimized design
- Add side cutter / add chamfer and inner plate at member part
- Increase bucket solidity and change casting type
- * Above image may differ from actual product.





ADVANCED HD CABIN (OPTIONAL)

- ROPS, FOPS optional
- The latest interior
- (MP3, Joystick, Air suspension seat, etc.)



PRE CLEANER

- Install rotor type pre-cleaner (Donaldson Top Spin 5"). So filtering efficiency 20% increased



WATER SEPARATOR

 Fuel water separator filters water in fuel and enhance engine's durability and reduce quality problem caused by water in fuel (Extra Filter + Pre Filter + Main Filter)



TROPICAL HYDRAULIC OIL (ISO VG 68)

- Maintain best performance of your machine by keeping optimum viscosity in tropical area.



PERFORMANCE & PRODUCTIVITY





DOOSAN ENGINE (DL06)

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

The new engine produces 162 hp(120 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.











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.

2 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 pin type 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.

4 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.

EXCAVATOR CONTROL

Improved Excavator control by New EPOS™ system The brains of the hydraulic excavator, the EPOS™ (Electronic Power Optimizing system), have been improved, through a CAN (Controller Area Network) communication link, these units are now perfectly synchronised.



















ADVANCED 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.

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.

CAST COUNTERWEIGHT

A Cast Counterweight has been adopted to minimize deformation by external impact. In addition, operating stability has been increased by use of a low center of gravity design.

I 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.





RELIEF CUTOFF

The pump continues to supply flow even when the maximum pressure on the system is reached due to severe working environments and large workloads. Relief cutoff technology of DX210W prevents transfer of unnecessary flow to maintain powerful working level at the maximum value while reducing consumption of fuel.

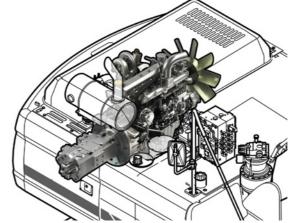


OPTIMIZED LEVER CONTROL & AUTO IDLE

When operator takes a break and leaves the control joystick fixed, both of the engine and the pump are kept in standby mode and prevents unnecessary fuel consumption.



PUMP MATCHING TECHNOLOGY



Engine & pump matching, the new technology of Doosan, fully resolves problems; low respones time of the system, unnecessary fuel consumption. Matching response time between pump and engine efficiently reduces unnecessary fuel consumption as well as exhaust fumes.



OPERATOR COMFORT





MONITOR



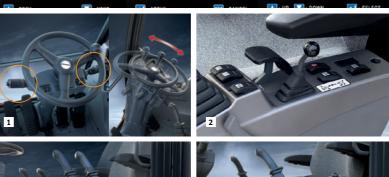
- 3 power modes for maximum efficiency
- Standand mode
- Economy mode
- 3 work modes to suit your application
- 1-way mode
- 2-way mode
- Digging mode

- Control panel
- Navigation modes
 - Rearview camera, Display selector
- Working modes
 - Auto-idle & Flow rate control

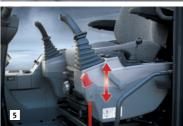


CONTROL PANEL

- Standard screen
- Anti-theft protection
- Filter/oil information
- Operation history
- **E** Flow rate control
- Contrast 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.

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

4 COMFORTABLE 2-STAGE SLIDING SEAT

5 CONTROL STAND (TELESCOPIC & TILTING FUNCTION)

AIR CONDITIONING

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.











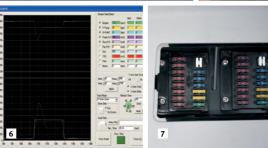




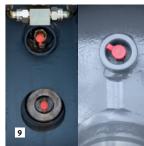












■ ENGINE OIL FILTER

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 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 made more effective by the use of 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.

4 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.

I 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 EPOSTM 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.

8 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.

TELEMATICS SERVICE (OPTIONAL)

GLOBAL PARTS NETWORK

TELECOMMUNICATIONS

Data flow from machine to web







BENEFITS



FUNCTIONS

Location

Geo-fence



Reports

Periodic operation report

Utilization



Operation Trend

- · Total operation hour
- · Operation hour by mode



Fuel Efficiency*

- · Fuel level
- Fuel consumption





Preventive maintenance by item replacement cycle

	47	27								
	Exceptor	209.4	Engine CEFflor		Hydraulic CEFfber	Pilot Filter	Alf Charter	Contact Filter		Hydraufe Of
	Decarator	491	Engine CETTher	Fiel Filter	Hybradic Oliffilm	Plus Filter	Air Charer	Contact Filter	Engine Oil	Hydrads Of
	Downton	276.3	Engine Oil Filter	Fiel Filter	Hydradic Officer	File Files	Ale Charter	Coolpt Filter	Engine Cili	Hydradic Cd
	Dicavator	83.2	Engine Oil Filter	Fiel Film	Hydravic Orlino	Pick Filter	Air Cinaver	Coolet Film	Engine CH	Hydraufic CVF
	Dicavator	240.5	Trajec October	Field Filter	Hebasic Oi Filor	Pilot Filter	Air Clearer	Contact Filter	Engine CN	Hydrafic CH
tonal: (86					1 2	4 3	6 7 8	9 10	



Warning & Alert

- Detect machine warnings
- Antenna disconnection
- Geo/Time fence



^{*} Functions may not be applied to all models. Please contact your sales representative to get more information of the service.

TELEMATICS SERVICE BENEFITS

Improve work efficiency

- · Timely and preventive service
- · Improve operator's skills by comparing
- · Manage fleet more effectively

Better service for customers

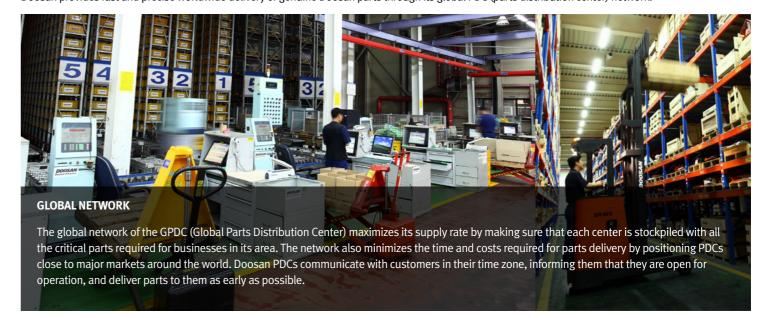
- · Provide better quality of service
- · Maintain machine value
- · Better understanding of market needs

Responsive to customer's voice

- · Utilize quality-related field data
- · Apply customer's usage profile to developing new machine

GLOBAL PDC (PARTS DISTRIBUTION CENTER) NETWORK

Doosan provides fast and precise worldwide delivery of genuine Doosan parts through its global PDC (parts distribution center) network.



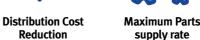
The Global Parts **Distribution Center Network** PDCs had been set up as shown below, including Mother PDC in Ansan, Korea. The eight other PDCs include one in China (Yantai), two in the USA (Chicago and Miami), one in Brazil (Campinas), two in Europe (Germany and the UK), one in the Middle East (Dubai), and one in Asia (Singapore).



PDC BENEFIT



Reduction







Shortest

distance/time parts delivery











Heavy Construction Bucket, which is also called Heavy Duty bucket, is the most commonly used bucket in the construction equipment market and is designed mainly for use in heavy construction but also used in low density mining and quarry application.





General Purpose bucket

which is also called General Purpose bucket, is designed for digging and materials with low wear characteristics such as top-soil, loam, coal.



Heavy Duty bucket

which is also called Heavy Duty bucket, is the most commonly used bucket in the re-handling soft to medium materials e.g. construction equipment market and is designed mainly for use in heavy construction but also used in low density mining and quarry application.



Severe Duty bucket

which is also called Severe Duty bucket. The bucket is designed for use in high density mining and quarry application using high strength and high abrasion resistance materials. It can be used in the toughest of applications.



Extra Severe Duty Bucket

which is also called X class bucket. The bucket is designed for use in high density mining and quarry application using high strength and high abrasion resistance materials. It can be used in the toughest of applications.



GD (General Duty) Tooth

Optimized design for Doosan's GP and the new General Construction bucket.
Suitable for machines ranging from 14 to 70 tons. Recommended for general construction

HD (Heavy Duty) Tooth

medium density quarries and mining

SD (Severe Duty) Tooth







BUCKET

Heavy Duty (H class)

Severe Duty (S class)

	Capacity (Width) [m³(mm)]
GENERAL PURPOSE BUCKET	0.51(768) / 0.81(1,125) / 0.86(1,170) / 1.05(1,369) / 1.17(1,490) / 1.28(1,604)
HEAVY DUTY BUCKET	0.60(796) / 0.76(946) / 0.92(1,096) / 1.08(1,246) / 1.24(1,396) / 1.35(1,496) / 1.40(1,546) / 1.51(1,646)
SEVERE DUTY BUCKET	0.91(1,094) / 1.07(1,244) / 1.23(1,394)









DEMOLITION

1,780 kg

	Try dradatic Break	. Incuru	.venzei	totating crasher	Matti i iocessoi	
	Model	Weight	Tool diameter	Operating Pressure	Oil Flow	Frequency
HYDRAULIC BREAKER	HB20	1,862 kg	135 mm	170~210 mm	130~150 l/min	400~800 BPM
	DXB180	1,720 kg	140 mm	160~180 mm	130~180 l/min	320~580 BPM
	Model	Weight		Max. Jaw opening	Force at	Tip
FIXED PULVERIZER	FP22	1,375 kg		732 mm	54 t	

MULTI-PROCESSOR C: Crushing jaw

ROTATING CRUSHER

D: Demolition jaw

P: Pulverizing jaw

S: Shearing jaw





2,040 / 2,050 / 2,210 / 1,880 kg





732 mm

903 / 797 / 893 / 503 mm



56 t



MATERIAL HANDLING

RC22

MP22

C/D/P/S

68 / 70 / 64 / 80 t

Model Weight Max Jaw opening Max. Closing Force Capacity **MULTI-GRAPPLE** MG22 1,423 kg 2,044 mm 5.7 t 0.75 m^3 STONE GRAPPLE SG22 1,235 kg 2,000 mm 0.45 m² **WOOD GRAPPLE** L/P WG22 1,132 / 1,010 kg 2,000 mm 0.62 m² LOG GRAPPLE L/P LG22 1,280 / 1,250 kg 2,000 mm 0.67 m² ORANGE GRAPPLE OG22 1,300 kg 2,150 mm 0.50 m³

L: Link type P: Pendulum type

EARTH MOVING







actor	Ripper	
	Max. Jaw opening	
	1 725	

	Model	Weight	Max. Jaw opening	Capacity
CLAMSHELL BUCKET	CB22	1,440 kg	1,725 mm	0.80m^3
	Model	Weight	Base plate (WxL)	Impulse force
PLATE COMPACTOR	PC22	1,325 kg	860 x 1,200 mm	11.2 t
	Model	Weight	Length	
RIPPER	RP22	450 kg	1,278 mm	



CONNECTING

	Model	Weight	Bucket Pin dia.	Working rage (Pin to Pin)
QUICK COUPLER	QC22	319 kg	80 mm	445 ~ 514 mm

TECHNICAL SPECIFICATIONS

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

120 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

Ф100 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(265 bar)

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%

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.
- \bullet 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

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.

Undercar	riage type	Operating weight	Operating weight (Two-piece Boom)	
Front	Rear	(One-piece Boom)		
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)	

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.

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]

[IWO-biece	Dooiii j	
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 Bo	om 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")

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)

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)

Dagamman dation

Hydraulic system

280 l (73.97 US gal, 61.59 lmp gal)

Hydraulic tank

205 l (54.16US gal, 45.09 lmp gal)

BUCKET

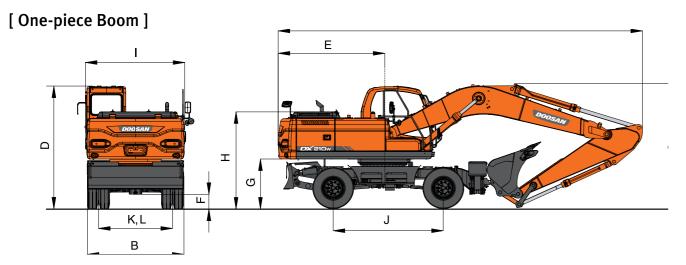
					Recommendation					
Сара	Capacity Width			5,600mm (18'4") One-piece Boom				5,400mm (17'9") Two-piece Boom		
PCSA, heaped	CECE heaped	Without side cutters	With side cutters	Weight	2,000mm (6'7")Arm	2,400mm (7'10")Arm	2,750mm (9')Arm	3,000mm (9'10")Arm	2,000mm (6'7")Arm	2,400mm (7'10")Arm
0.51m ³ (0.67yd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

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

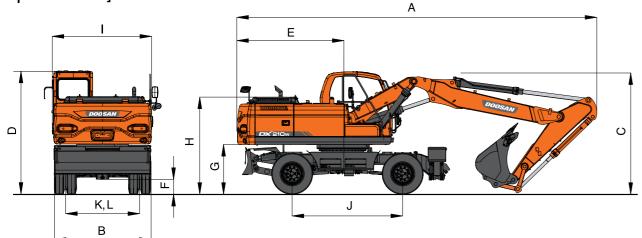
DIMENSIONS



DIMENSIONS

Boor	n type (One-piece)	5,600mm(18'4")						
Arm	type	2,000mm(6'7")	2,400mm(7'10")	2,750mm(9')	3,000mm(9'10")			
Α	Shipping Length	9,520mm(31'3")	9,470mm(31'1")	9,420mm(30'11")	9,400mm(30'10")			
В	Shipping Width	→	→	2,500mm(8'2")	+			
С	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")	+			
Н	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]

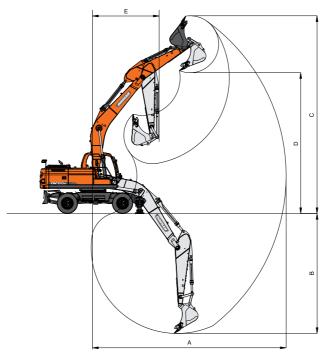


DIMENSIONS

Boom type (Two-piece)	5,400mr	n(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

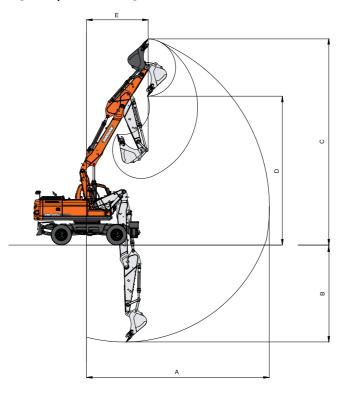
[One-piece Boom]



WORKING RANGES

Boo	m type (One-piece)		5,200mr	n (17'1")	
Arm	type	2,000mm (6'7")	2,400mm (7'10")	2,750mm (9')	3,000mm (9'10")
Α	Max. Digging Reach	9,050mm (29'8")	9,430mm (30'11")	9,730mm (31'11")	10,000mm (32'8")
В	Max. Digging Depth	5,255mm (17'3")	5,655mm (18'7")	6,010mm (19 ' 9")	6,255mm (20'6")
С	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 RANGES

Boor	n type (Two-piece)	5,400mi	m(17'9")
Arm	type	2,000mm (6'7")	2,400m (7'10")
A	Max. Digging Reach	9,005mm (29'7")	9,405mm (30'10")
В	Max. Digging Depth	5,225mm (17'2")	5,625mm (18'5")
С	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)

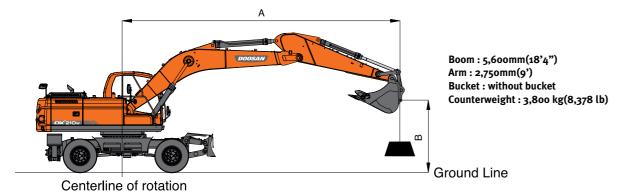
Bucket (PCSA)	0.51m³	0.81m³	0.86m3 (w/cutter)	0.86m³ (w/o cutter)	1.05m ³	1.17m³	1.28m³
	15,200 kgf	15,200 kgf	15,200 kgf	15,200 kgf	15,200 kgf	15,200 kgf	15,200 kgf
	149.06 kN	149.06 kN	149.06 kN	149.06 kN	149.06 kN	149.06 kN	149.06 kN
	33,510 lbf	33,510 lbf	33,510 lbf	33,510 lbf	33,510 lbf	33,510 lbf	33,510 lbf

Arm	2,000mm	2,400mm	2,750mm	3,000mm
	13,400 kgf	11,900 kgf	10 , 600 kgf	10,200 kgf
Digging force	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)

LIFTING CAPACITY

[One-piece Boom]



Metric Unit: 1,000kg

A(m)			2	3	3	4	4		5	(5	7	,	8	3	М	ax. Read	:h
B(m)	Chassis Frame Attachment	4	(-	4	(+	£	G	<u> </u>	G	4	(+	4	(4	[4	G	A(m)
	F-Dozer + R-Outrigger															*5.68	*5.68	
8	F-Outrigger + R-Outrigger															*5.68	*5.68	5.24
	F-Dozer + R-Outrigger									*5.45	*5.45					*5.44	*5.44	
7	F-Outrigger + R-Outrigger									*5.45	*5.45					*5.44	*5.44	6.24
	F-Dozer + R-Outrigger									*5.48	*5.48					*5.39	5.32	(
6	F-Outrigger + R-Outrigger									*5.48	*5.48					*5.39	5.37	6.95
	F-Dozer + R-Outrigger							*6.22	*6.22	*5.76	*5.76	*5.47	5.25			*5.40	4.74	(
5	F-Outrigger + R-Outrigger							*6.22	*6.22	*5.76	*5.76	*5.47	5.29			*5.40	4.79	7.46
	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	- 0-
4	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
	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
3	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	0.01
	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
2	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
	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
1	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	0.03
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
O (Ground)	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	7.04
-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
-1	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
-2	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
-3	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	0.30
-4	F-Dozer + R-Outrigger			*9.52	*9.52	*7.90	*7.90	*6.38	*6.38							*5.71	*5.71	5.41
4	F-Outrigger + R-Outrigger			*9.52	*9.52	*7.90	*7.90	*6.38	*6.38							*5.71	*5.71	5.41

Unit: 1,000lb Feet

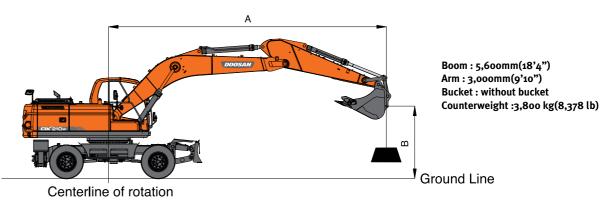
A(ft)		1	0'	1	5'	2	0'	2	5'		Max. Reach	1
B(ft)	Chassis Frame Attachment	<u> </u>	(Ğ	(‡	-	(4	(Ğ	(A(ft)
	F-Dozer + R-Outrigger									*12.26	*12.26	-0 -0
25	F-Outrigger + R-Outrigger									*12.26	*12.26	18.58
	F-Dozer + R-Outrigger					*12.01	*12.01			*11.88	*11.88	(-
20	F-Outrigger + R-Outrigger					*12.01	*12.01			*11.88	*11.88	22.62
	F-Dozer + R-Outrigger			*15.18	*15.18	*12.98	*12.98	*11.93	10.09	*11.93	10.08	
15	F-Outrigger + R-Outrigger			*15.18	*15.18	*12.98	*12.98	*11.93	10.19	*11.93	10.17	25.02
40	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
10	F-Outrigger + R-Outrigger	*11.52	*11.52	*18.81	*18.81	*14.55	14.05	*12.45	10.06	*12.10	9.35	20.20
	F-Dozer + R-Outrigger	*2.61	*2.61	*21.81	21.11	*16.02	13.56	*13.03	9.81	*12.37	9.03	26.49
5	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
O (Ground)	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
-5	F-Outrigger + R-Outrigger	*21.63	*21.63	*21.90	20.84	*16.26	13.38			*12.98	10.41	25.92
-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

- 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 Front

📑 : Rating Over Side or 360 degree

[One-piece Boom]



Metric Unit: 1,000kg

A(m)			2	3	3		4		5	(6	1	7		В	М	ax. Read	:h
B(m)	Chassis Frame Attachment	4	(-	4	(4	G+	4	C	-	G	-6	G-	<u> </u>	C		[A(m)
	F-Dozer + R-Outrigger															*5.41	*5.41	
8	F-Outrigger + R-Outrigger															*5.41	*5.41	5.66
	F-Dozer + R-Outrigger									*5.18	*5.18					*5.19	*5.19	
7	F-Outrigger + R-Outrigger									*5.18	*5.18					*5.19	*5.19	6.60
	F-Dozer + R-Outrigger									*5.24	*5.24	*5.18	*5.18			*5.12	*5.12	
6	F-Outrigger + R-Outrigger									*5.24	*5.24	*5.18	*5.18			*5.12	*5.12	7.28
	F-Dozer + R-Outrigger							*5.94	*5.94	*5.54	*5.54	*5.28	*5.28			*5.15	4.68	
5	F-Outrigger + R-Outrigger							*5.94	*5.94	*5.54	*5.54	*5.28	*5.28			*5.15	4.72	7.76
	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	0
4	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
	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	0
3	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
	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
2	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
	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
1	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	0.31
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
O (Ground)	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	0.13
-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
-1	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	7.02
-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
-2	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	7.30
-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
-3	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	0.71
-4	F-Dozer + R-Outrigger			*10.26	*10.26	*8.40	*8.40	*6.83	*6.83							*5.54	*5.54	5.82
4	F-Outrigger + R-Outrigger			*10.26	*10.26	*8.40	*8.40	*6.83	*6.83							*5.54	*5.54	5.02

Unit: 1,000lb Feet

A(ft)		1	0'	1	5'	2	0'	2	5'		Max. Reach	1
B(ft)	Chassis Frame Attachment	-	(<u> </u>	Œ	4	(<u> </u>	Œ	-	(A(ft)
	F-Dozer + R-Outrigger									*11.68	*11.68	0-
25	F-Outrigger + R-Outrigger									*11.68	*11.68	19.87
	F-Dozer + R-Outrigger					*11.50	*11.50			*11.29	*11.29	(-
20	F-Outrigger + R-Outrigger					*11.50	*11.50			*11.29	*11.29	23.69
	F-Dozer + R-Outrigger			*14.45	*14.45	*12.53	*12.53	*11.55	10.59	*11.45	9.96	
15	F-Outrigger + R-Outrigger			*14.45	*14.45	*12.53	*12.53	*11.55	10.68	*11.45	10.06	25.99
	F-Dozer + R-Outrigger	*19.62	*19.62	*18.12	*18.12	*14.16	*14.16	*12.17	10.43	*11.62	9.21	2= 10
10	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
	F-Dozer + R-Outrigger	*5.52	*5.52	*21.33	*21.33	*15.73	14.18	*12.85	10.26	*11.87	8.99	
5	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
O (Ground)	F-Outrigger + R-Outrigger	*10.83	*10.83	*22.69	21.80	*16.62	14.04	*13.12	10.22	*12.16	9.35	20.07
	F-Dozer + R-Outrigger	*20.06	*20.06	*22.09	21.48	*16.37	13.80			*12.43	10.15	24.92
-5	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
-10	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
-15	F-Outrigger + R-Outrigger			*13.74	*13.74					*11.69	*11.69	10.90

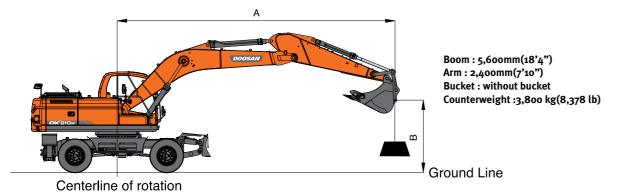
- 1. Ratings are based on SAE J1097
- 2. Load point is the end of arm.
- 3. * Rated loads are based on hydraulic capacity.
 4. Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping capacity.

: Rating Over Front

궠 : Rating Over Side or 360 degree

LIFTING CAPACITY

[One-piece Boom]



Metric Unit: 1,000kg

A(m)			2		3		4		5		6	7	7	M	ax. Read	ch
B(m)	Chassis Frame Attachment	-	C	<u>.</u>	G	4	[4	[3	[-6	[4	[A(m)
_	F-Dozer + R-Outrigger													*6.20	*6.20	_
8	F-Outrigger + R-Outrigger													*6.20	*6.20	4.81
	F-Dozer + R-Outrigger							*5.88	*5.88					*5.87	*5.87	
7	F-Outrigger + R-Outrigger							*5.88	*5.88					*5.87	*5.87	5.89
	F-Dozer + R-Outrigger							*6.07	*6.07	*5.80	*5.80			*5.74	*5.74	
6	F-Outrigger + R-Outrigger							*6.07	*6.07	*5.80	*5.80			*5.74	*5.74	6.64
_	F-Dozer + R-Outrigger					*7.51	*7.51	*6.60	*6.60	*6.04	*6.04	*5.73	5.45	*5.70	5.24	
5	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
	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	
4	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
_	F-Dozer + R-Outrigger					*10.45	*10.45	*8.18	*8.18	*6.93	6.72	*6.15	5.34	*5.75	4.60	
3	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
_	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
2	F-Outrigger + R-Outrigger					*10.27	*10.27	*8.89	8.79	*7.36	6.67	*6.39	5.33	*5.81	4.55	/.04
_	F-Dozer + R-Outrigger					*9.00	*9.00	*9.32	8.59	*7.66	6.53	*6.55	5.23	*5.89	4.52	
1	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
) (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	
J (Ground)	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
-1	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	/ • 2
-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	6.7
-2	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	0.7
-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	6.0
-3	F-Outrigger + R-Outrigger			*10.87	*10.87	*9.11	*9.11	*7.52	*7.52	*5.95	*5.95			*5.93	*5.93	0.0
-4	F-Dozer + R-Outrigger					*7.03	*7.03							*5.50	*5.50	5.00
-4	F-Outrigger + R-Outrigger					*7.03	*7.03							*5.50	*5.50	3.0

Unit: 1,000lb Feet

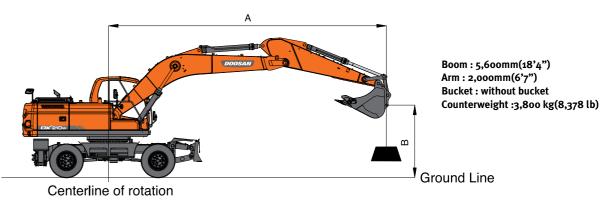
A(ft)		1	0'	1	5'	2	0'	2	5'		Max. Reach	1
B(ft)	Chassis Frame Attachment	<u>-</u>	(_	4	G	4	(<u> </u>	(<u>-</u>	(L	A(ft)
	F-Dozer + R-Outrigger									*13.31	*13.31	
25	F-Outrigger + R-Outrigger									*13.31	*13.31	17.30
	F-Dozer + R-Outrigger					*12.74	*12.74			*12.68	*12.68	24.50
20	F-Outrigger + R-Outrigger					*12.74	*12.74			*12.68	*12.68	21.59
45	F-Dozer + R-Outrigger	*22.43	*22.43	*16.15	*16.15	*13.57	*13.57			*12.57	11.12	2, 20
15	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	25.27
10	F-Outrigger + R-Outrigger			*19.67	*19.67	*15.03	14.61	*12.79	10.49	*12.68	10.26	25.37
	F-Dozer + R-Outrigger			*22.29	21.96	*16.32	14.15	*13.19	10.26	*12.89	9.92	25.64
5	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
O (Ground)	F-Outrigger + R-Outrigger	*7.27	*7.27	*22.80	21.85	*16.80	14.08			*13.14	10.38	24.03
-5	F-Dozer + R-Outrigger	*22.07	*22.07	*21.40	*21.40	*15.95	13.92			*13.30	11.49	22.94
-5	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	17.00

- 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 Front

📑 : Rating Over Side or 360 degree

[One-piece Boom]



Metric Unit: 1,000kg

(m)		:	3		4		5		6		7	М	ax. Read	:h
B(m)	Chassis Frame Attachment	-	[G	[4	(-	(-	[£	(A(m)
	F-Dozer + R-Outrigger					*6.37	*6.37					*6.35	*6.35	
7	F-Outrigger + R-Outrigger					*6.37	*6.37					*6.35	*6.35	5.40
	F-Dozer + R-Outrigger					*6.49	*6.49	*6.17	*6.17			*6.15	*6.15	
6	F-Outrigger + R-Outrigger					*6.49	*6.49	*6.17	*6.17			*6.15	*6.15	6.21
	F-Dozer + R-Outrigger	*10.28	*10.28	*8.11	*8.11	*6.99	*6.99	*6.34	*6.34			*6.07	5.68	
5	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
	F-Dozer + R-Outrigger			*9.57	*9.57	*7.73	*7.73	*6.71	*6.71	*6.12	5.36	*6.06	5.19	
4	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
	F-Dozer + R-Outrigger			*11.07	*11.07	*8.51	*8.51	*7.15	6.68	*6.31	5.31	*6.09	4.92	
3	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
	F-Dozer + R-Outrigger			*5.60	*5.60	*9.12	8.68	*7.52	6.59	*6.50	5.26	*6.14	4.80	7.15
2	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
	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
1	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
O (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	7.10
O (Ground)	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
-1	F-Outrigger + R-Outrigger	*7.06	*7.06	*10.90	*10.90	*9.00	8.60	*7.44	6.53			*6.29	5.43	0.04
-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
-2	F-Outrigger + R-Outrigger	*11.43	*11.43	*9.89	*9.89	*8.24	*8.24	*6.73	6.56			*6.24	6.12	0.30
-3	F-Dozer + R-Outrigger	*9.65	*9.65	*8.36	*8.36	*6.90	*6.90					*6.01	*6.01	5.53
-3	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)		1	10'	1	.5'	2	0'		Max. Reach	1
B(ft)	Chassis Frame Attachment	-	(<u>.</u>	(-	4	(-	(L	A(ft)
	F-Dozer + R-Outrigger			*14.58	*14.58			*14.59	*14.59	
25	F-Outrigger + R-Outrigger			*14.58	*14.58			*14.59	*14.59	15.4
	F-Dozer + R-Outrigger			*14.68	*14.68	*13.59	*13.59	*13.59	*13.59	
20	F-Outrigger + R-Outrigger			*14.68	*14.68	*13.59	*13.59	*13.59	*13.59	20.1
	F-Dozer + R-Outrigger	*25.33	*25.33	*17.16	*17.16	*14.18	*14.18	*13.37	11.98	
15	F-Outrigger + R-Outrigger	*25.33	*25.33	*17.16	*17.16	*14.18	*14.18	*13.37	12.08	22.8
	F-Dozer + R-Outrigger			*20.58	*20.58	*15.50	14.39	*13.42	10.86	
10	F-Outrigger + R-Outrigger			*20.58	*20.58	*15.50	14.52	*13.42	10.96	24.1
	F-Dozer + R-Outrigger			*22.73	21.89	*16.59	14.11	*13.60	10.58	
5	F-Outrigger + R-Outrigger			*22.73	22.09	*16.59	14.24	*13.60	10.68	24.4
	F-Dozer + R-Outrigger			*22.62	21.69	*16.76	13.95	*13.79	11.04	
(Ground)	F-Outrigger + R-Outrigger			*22.62	21.89	*16.76	14.08	*13.79	11.14	23.6
_	F-Dozer + R-Outrigger	*23.55	*23.55	*20.69	*20.69	*15.43	13.97	*13.84	12.53	21.
-5	F-Outrigger + R-Outrigger	*23.55	*23.55	*20.69	*20.69	*15.43	14.10	*13.84	12.65	21.
40	F-Dozer + R-Outrigger	*20.92	*20.92	*16.42	*16.42			*13.20	*13.20	10
-10	F-Outrigger + R-Outrigger	*20.92	*20.92	*16.42	*16.42			*13.20	*13.20	18.0

- 1. Ratings are based on SAE J1097
- 2. Load point is the end of arm.

 3. * Rated loads are based on hydraulic capacity.

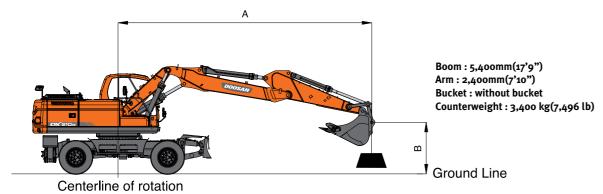
 4. Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping capacity.

: Rating Over Front

급 : Rating Over Side or 360 degree

LIFTING CAPACITY

[Two-piece Boom]



Metric Unit: 1,000kg

A(m) B(m)	Chassis Frame Attachment	2		3			4	5		6		7		Max. Reach		
		4	(4	G	4	-	-	(3	(d e	4	G	4	[A(m)
	F-Dozer + R-Outrigger													*6.20	*6.20	
8	F-Outrigger + R-Outrigger													*6.20	*6.20	4.81
_	F-Dozer + R-Outrigger							*5.88	*5.88					*5.87	4.85	- 0-
7	F-Outrigger + R-Outrigger							*5.88	*5.88					*5.87	*5.87	5.89
	F-Dozer + R-Outrigger							*6.07	*6.07	*5.80	4.72			*5.74	4.02	6.64
6	F-Outrigger + R-Outrigger							*6.07	*6.07	*5.80	*5.80			*5.74	5.74	
_	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
5	F-Outrigger + R-Outrigger					*7.51	*7.51	*6.60	*6.60	*6.04	*6.04	*5.73	5.26	*5.70	5.06	
	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
4	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	
_	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
3	F-Outrigger + R-Outrigger					*10.45	*10.45	*8.18	*8.18	*6.93	6.49	*6.15	5.16	*5.75	4.44	
_	F-Dozer + R-Outrigger					*10.27	7.70	*8.89	5.62	*7.36	4.37	*6.39	3.54	*5.81	3.03	7.00
2	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
	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
1	F-Outrigger + R-Outrigger					*9.00	*9.00	*9.32	8.29	*7.66	6.30	*6.55	5.04	*5.89	4.36	
O (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
U (Ground)	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	
-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
-1	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	
-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
-2	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	0./3

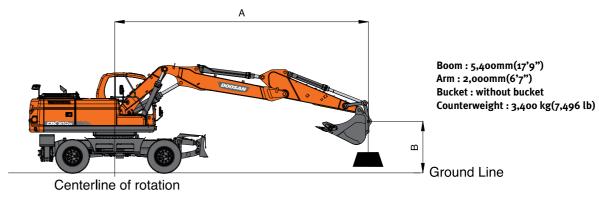
A(ft)	Chassis Frame Attachment	10'		15'		20'		25'		Max. Reach		
B(ft)		4	(d a	<u>-</u>	(]	<u>-</u>	((-	(d a	A(ft)
	F-Dozer + R-Outrigger									*13.31	12.69	17.30
25	F-Outrigger + R-Outrigger									*13.31	*13.31	
	F-Dozer + R-Outrigger					*12.74	10.15			*12.68	9.00	21.59
20	F-Outrigger + R-Outrigger					*12.74	*12.74			*12.68	*12.68	
	F-Dozer + R-Outrigger	*22.43	*22.43	*16.15	15.28	*13.57	9.96			*12.57	7.52	24.09
15	F-Outrigger + R-Outrigger	*22.43	*22.43	*16.15	*16.15	*13.57	*13.57			*12.57	10.73	
	F-Dozer + R-Outrigger			*19.67	14.50	*15.03	9.65	*12.79	7.01	*12.68	6.86	25.37
10	F-Outrigger + R-Outrigger			*19.67	*19.67	*15.03	13.99	*12.79	10.03	*12.68	9.81	
	F-Dozer + R-Outrigger			*22.29	13.88	*16.32	9.35	*13.19	6.89	*12.89	6.66	25.61
5	F-Outrigger + R-Outrigger			*22.29	21.20	*16.32	13.66	*13.19	9.90	*12.89	9.56	
0.6	F-Dozer + R-Outrigger	*7.27	*7.27	*22.80	13.62	*16.80	9.17			*13.14	6.88	24.83
O (Ground)	F-Outrigger + R-Outrigger	*7.27	*7.27	*22.80	20.90	*16.80	13.46			*13.14	9.91	
	F-Dozer + R-Outrigger	*22.07	*22.07	*21.40	13.61	*15.95	9.14			*13.30	7.65	22.94
-5	F-Outrigger + R-Outrigger	*22.07	*22.07	*21.40	20.89	*15.95	13.42			*13.30	11.08	
40	F-Dozer + R-Outrigger	*23.55	*23.55	*17.87	13.81					*13.04	9.56	10.00
-10	F-Outrigger + R-Outrigger	*23.55	*23.55	*17.87	*17.87					*13.04	*13.0	19.60

- 1. Ratings are based on SAE J1097
- 2. 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 Front

🔁 : Rating Over Side or 360 degree

[Two-piece Boom]



Metric Unit: 1,000kg

A(m)		:	3		4	5	5		6	7		Max. Reach		ch
B(m)	Chassis Frame Attachment	-	(]	-6	(]	<u>-</u>	(-	Œ	-	[F	G	A(m)
	F-Dozer + R-Outrigger					*6.37	5.89					*6.35	5.22	
7	F-Outrigger + R-Outrigger					*6.37	*6.37					*6.35	*6.35	5.40
	F-Dozer + R-Outrigger					*6.49	5.86	*6.17	4.41			*6.15	4.18	
6	F-Outrigger + R-Outrigger					*6.49	*6.49	*6.17	*6.17			*6.15	*6.15	6.21
	F-Dozer + R-Outrigger	*10.28	*10.28	*8.11	*8.11	*6.99	5.75	*6.34	4.36			*6.07	3.62	_
5	F-Outrigger + R-Outrigger	*10.28	*10.28	*8.11	*8.11	*6.99	*6.99	*6.34	*6.34			*6.07	5.26	6.77
	F-Dozer + R-Outrigger			*9.57	7.82	*7.73	5.59	*6.71	4.29	*6.12	3.41	*6.06	3.30	
4	F-Outrigger + R-Outrigger			*9.57	*9.57	*7.73	*7.73	*6.71	6.29	*6.12	4.96	*6.06	4.80	7.15
	F-Dozer + R-Outrigger			*11.07	7.48	*8.51	5.43	*7.15	4.19	*6.31	3.37	*6.09	3.12	
3	F-Outrigger + R-Outrigger			*11.07	*11.07	*8.51	8.21	*7.15	6.19	*6.31	4.92	*6.09	4.55	7.37
	F-Dozer + R-Outrigger			*5.60	*5.60	*9.12	5.29	*7.52	4.11	*6.50	3.31	*6.14	3.04	7.15
2	F-Outrigger + R-Outrigger			*5.60	*5.60	*9.12	8.05	*7.52	6.10	*6.50	4.86	*6.14	4.44	7.45
	F-Dozer + R-Outrigger			*6.49	*6.49	*9.42	5.20	*7.74	4.05	*6.58	3.29	*6.20	3.04	7 20
1	F-Outrigger + R-Outrigger			*6.49	*6.49	*9.42	7.95	*7.74	6.03	*6.58	4.83	*6.20	4.45	7.39
O (Ground)	F-Dozer + R-Outrigger			*10.27	7.16	*9.38	5.16	*7.73	4.01	*6.49	3.26	*6.26	3.15	7.40
O (Ground)	F-Outrigger + R-Outrigger			*10.27	*10.27	*9.38	7.90	*7.73	5.99	*6.49	4.80	*6.26	4.62	7.19
-1	F-Dozer + R-Outrigger	*7.06	*7.06	*10.90	7.18	*9.00	5.16	*7.44	4.01			*6.29	3.37	60,
-1	F-Outrigger + R-Outrigger	*7.06	*7.06	*10.90	*10.90	*9.00	7.90	*7.44	5.98			*6.29	4.97	6.84
-2	F-Dozer + R-Outrigger	*11.43	*11.43	*9.89	7.23	*8.24	5.19	*6.73	4.04			*6.24	3.77	6.30
-2	F-Outrigger + R-Outrigger	*11.43	*11.43	*9.89	*9.89	*8.24	7.93	*6.73	6.02			*6.24	5.60	0.30

Feet Unit: 1,000lb

A(ft)		1	10'	1	5'	2	0'	Max. Reach			
B(ft)	Chassis Frame Attachment	4	Œ	4	(L i	-	(_	4	(A(ft)	
	F-Dozer + R-Outrigger			*14.58	*14.58			*14.59	*14.59	15.46	
25	F-Outrigger + R-Outrigger			*14.58	*14.58			*14.59	*14.59		
	F-Dozer + R-Outrigger			*14.68	*14.68	*13.59	9.48	*13.59	9.37	20.15	
20	F-Outrigger + R-Outrigger			*14.68	*14.68	*13.59	*13.59	*13.59	*13.59		
	F-Dozer + R-Outrigger	*25.33	*25.33	*17.16	14.33	*14.18	9.32	*13.37	7.63	22.82	
15	F-Outrigger + R-Outrigger	*25.33	*25.33	*17.16	*17.16	*14.18	13.64	*13.37	11.09		
	F-Dozer + R-Outrigger			*20.58	13.61	*15.50	9.05	*13.42	6.89	24.17	
10	F-Outrigger + R-Outrigger			*20.58	*20.58	*15.50	13.34	*13.42	10.04		
_	F-Dozer + R-Outrigger			*22.73	13.09	*16.59	8.79	*13.60	6.68	24.42	
5	F-Outrigger + R-Outrigger			*22.73	20.32	*16.59	13.05	*13.60	9.77		
0.00	F-Dozer + R-Outrigger			*22.62	12.92	*16.76	8.65	*13.79	6.94	(-	
O (Ground)	F-Outrigger + R-Outrigger			*22.62	20.12	*16.76	12.89	*13.79	10.19	23.60	
	F-Dozer + R-Outrigger	*23.55	*23.55	*20.69	12.96	*15.43	8.66	*13.84	7.84	21.60	
-5	F-Outrigger + R-Outrigger	*23.55	*23.55	*20.69	*20.69	*15.43	12.91	*13.84	11.58		
-10	F-Dozer + R-Outrigger	*20.92	*20.92	*16.42	13.20			*13.20	10.27	10.00	
-10	F-Outrigger + R-Outrigger	*20.92	*20.92	*16.42	*16.42			*13.20	*13.20	18.00	

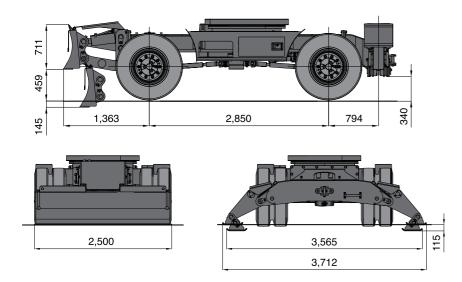
- Ratings are based on SAE J1097
 Load point is the end of arm.
 * Rated loads are based on hydraulic capacity.
 Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping capacity.

: Rating Over Front

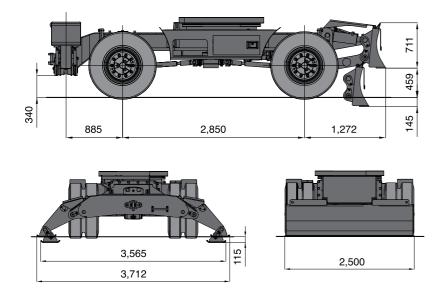
🔁 : Rating Over Side or 360 degree

UNDERCARRIAGE

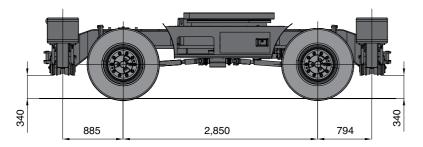
Undercarriage with front dozer and rear outrigger



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 conditione
- 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 platesSeat 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

Cabin & Interior

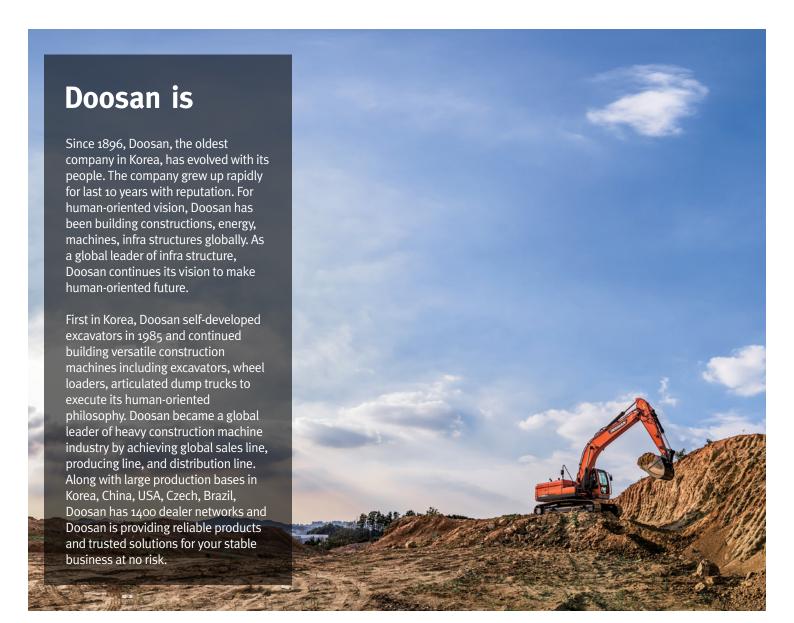
- Air suspension seat
- MP3/CD player
- Rain shield
- 2 front lamps
- 4 front + 2 rear lamps

Others

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

Undercarriage

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





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