

HORSEN

Construction Equipment

DX190W

Engine Power	SAE J1349, net 116 kW (156 HP) @ 1,900 rpm
Operational Weight	17,800 ~ 19,4000 kg (39,242 ~ 42,770 lb)
Bucket Capacity (SAE/PCS	A) 0.38 ~ 0.93 m ³ (0.5 ~ 1.21 yd ³)

DOOSAN DX190W HYDRAULIC EXCAVATOR : A NEW MODEL WITH NOVEL FEATURES

DOOSAI

THE NEW DX190W HYDRAULIC EXCAVATOR HAS ALL THE ADVANTAGES OF THE PREVIOUS MODEL, AND NOW OFFERS ADDITIONAL ADDED VALUE TO THE OPERATOR.

The new DX190W was developed with the concept of "providing optimum value to the end user." In concrete terms, this translates, into :

INCREASED PRODUCTION AND IMPROVED FUEL ECONOMY are 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.

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DX 190w

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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.





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







ADVANCED HD CABIN (OPTIONAL)

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



7 INCH MONITOR

- New, user-friendly LCD color monitor with full access to machine settings and maintenance data.
- Operator can see rear view through new monitor (If customer selects rear view camera option)



TROPICAL HYDRAULIC OIL (ISO VG 68)

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



PERFORMANCE & PRODUCTIVITY

The performance of the DX190W has a direct effect on its productivity. Its new "Common Rail" engine and new EPOS[™] controlled hydraulic system have combined to create an unbeatable hydraulic excavator, with a cost/performance ratio that makes the DX190W even more appealing.



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 156 hp(116 kw/158 PS) at only 1,900 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 torgue allows efficient use of the power of the hydraulic system. Faster working cycles increase productivity. Increased torgue 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.

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.



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 2x200l/min(@ 1,900rpm) reducing cycle time while a high capacity gear pump improves pilot line efficiency.

SWING DRIVE

7X 190W

Shocks during rotation are minimized, while increased torgue is available to ensure rapid cycles.



DOOSAN













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.

3 OUTRIGGERS

The pin type 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 BLADE

The pin type design allows the dozer blade 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 bottom and parallel design provide minimized ground pressure.

DURABILITY & 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.



minimize distortion due to shocks.





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.

2 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.

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

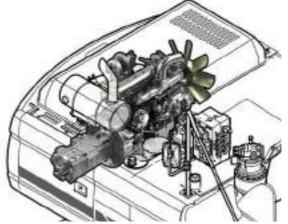


20~3

OPTIMIZED LEVER CONTROL & AUTO IDLE



PUMP MATCHING TECHNOLOGY





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 DX190W prevents transfer of unnecessary flow to maintain powerful working level at the maximum value while reducing consumption of fuel.

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.



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.

Main Pump

100% POWER UP

Engine

OPERATOR COMFORT

The work rate of the hydraulic excavator is directly linked to the performace of its operator. DOOSAN designed the DX190W 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.

MONITOR



- Economy mode 3 work modes to suit your application
- 1-way mode
- 2-way mode







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 fatigue.

CONTROL LEVER

Very precise control of the equipment increases versatility, safety and facilitates tricky operations requiring great precision. Levelling operations and the movement of lifted loads in particular are made easier and safer. DOOSAN designed the DX225LCA by putting the operator at the center 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.

AIR SUSPENSION SEAAT (OPTIONAL)

Equipped with various functions of adjustment forth and back and, and lumbar support, it reduces the vibration of equipment transmitted during work in an effective way. Also for considering winter working environment, Seat warmer functions equipped.



- 3 power modes for maximum efficiency
- Power mode
- Standand mode
- Digging mode

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

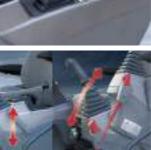
CONTROL PANEL

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



ADJUST DISPLAY







COMFORTABLE 2-STAGE SLIDING SEAT

CONTROL STAND (TELESCOPIC & TILTING FUNCTION)

REAR CAMERA

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.





Short maintenance operations at long intervals increase the availability of the equipment on site. DOOSAN has developed the DX190W 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.

2 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.

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 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.

B 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



TELEMATICS SERVICE TERMINAL

FUNCTIONS

ADT Productivit

elematics Service terminal is installed to machine / connected to EPOS™

Doosan Telematics Service provides various functions to support your great performance

Fault code/v

Reports

RA RESPONDENCE





Fault Code

*l*e maintenance



TELEMATICS SERVICE BENEFITS

Doosan and dealer support customers to improve work efficiency with timely and responsive services

Customer

Improve work efficiency

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

Dealer

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

	FUNCTION	EXCAVATOR	WHEEL LOADER	ADT
GPS	 Location Geo-fence 	All models	All models	All models
E-mail reports	· Daily, Weekly, Monthly report	All models	All models	All models
Operation hours	· Total operation hours	All models	All models	All models
	· Operation hours by mode	Tier 4 only	Tier 4 only	All models
Maintenance parts	· Preventive maintenance by item	All models	Tion (only	All models
	replacement cycle	All models	Tier 4 only	All models
Fault code/ Warning	· Fault code	All models	Tion (only	All models
	 Machine Warnings on Gauge Panel 	All models	Tier 4 only	All models
Fuel information	· Fuel level	All models	Tion (only	All models
	· Fuel consumption	Tier 4 only	Tier 4 only	All models
	· Dump tonnage	NI / A	N / A	Allmadala
Dump capacity	 Count of Work Cycle 	N/A	N/A	All models

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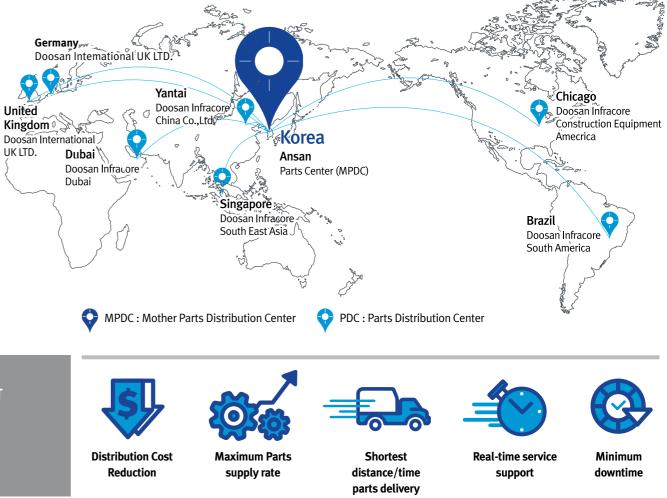
GLOBAL PDC (PARTS DISTRIBUTION CENTER) NETWORK

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 seven other PDCs include one in China (Yantai), one in the USA (Chicago), one in Brazil (Campinas), two in Europe (Germany and the UK), one in the Middle East (Dubai), and one in Asia (Singapore).







Doosan

· Apply customer's usage profile to deveping new machine



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.



Beveled edge for better penetration and 500BHN material for high abrasion resistance.

Designed with mechanical properties that maintain hardness for long wear life in tough digging applications.

Designed for better penetration and used high wear resistant material.

Side plates meet up with bottom wear plates for seamless corner protection.



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.

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 and utility loading applications.

TOOTH



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.



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.



Optimized design for the Heavy Construction bucket. Suitable for machines ranging from 14 to

Recommended for most applications including excavating, trenching, loading and medium density quarries and mining.

SD (Severe Duty) Tooth Optimized design for the Severe Mining bucket and the Xtreme Mining bucket. Suitable for machines ranging 22 to 70 tons. Recommended for extremely tough quarries and mining pplication.

BUCKET	General Purpose Bucket	Heavy Duty Bucket	Severe D
	Capacity (SAE/PCSA)		
GENERAL PURPOSE BUCKET	0.39 / 0.51 / 0.81 / 0.92	2 / 1.05 / 1.17 / 1.28 m	3
HEAVY DUTY BUCKET	0.60 / 0.76 / 0.92 / 1.08	3 / 1.24 / 1.35 / 1.40 /	1.51 m³

0.91 / 1.07 / 1.23 m³



DEMOLITION	Hydraulic Brea	ker Fixed Pulverizer
	Model	Weight
HYDRAULIC BREAKER	DXB180H	1,720 kg
	Model	Weight
FIXED PULVERIZER	Model FP14	Weight 1,100 kg



MATERIAL HANDLING

SEVERE DUTY BUCKET

		Model	Weight	Max Jaw opening	Max. Closing Force	Capacity
MULTI-GRAPPLE		MG14	1,050 kg	1,744 mm	4.6 t	0.45 m ³
STONE GRAPPLE		SG18	861 kg	1,800 mm	-	0.34 m ²
WOOD GRAPPLE	L / P	WG18	800 / 730 kg	1,800 mm	-	0.48 m ²
LOG GRAPPLE	L / P	LG18	935 / 910 kg	1,800 mm	-	0.42 m ²
ORANGE GRAPPLE		0G22	1,300 kg	2,150 mm	-	0.50 m ³

L: Link type P : Pendulum type

EARTH MOVING

		F		
	Model	Weight	Max. Jaw opening	Capacity
CLAMSHELL BUCKET	CB18	1,200 kg	1,455 mm	0.70 m 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
QUICK COUPLER	QC22	319 kg

데이터요정







ere Duty Bucket



Tool diameter	Frequency
140 mm	320~580 BPM
Max. Jaw opening	Force at Tip
Max. Jaw opening 680 mm	Force at Tip 51 t
	•









Gra	pple
	•••
	Gra





Bucket Pin dia.	Working rage (Pin to Pin)
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

116 kW(156HP) @ 1,900 rpm (SAE J1349, net)

Max torque

70 kgf.m(686 Nm) at 1,400 rpm

Piston displacement

5,890 cc (359 cu.in)

Bore & stroke

Φ100 mm x 125 mm (3.9" X 4.8")

Starter

24 V / 4.5 kW

Batteries

2 x 12 V / 100 Ah

Air cleaner

Double element with auto dust evacuation.

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 (22.4 mph)

Maximum traction force

11,075 kgf (24,416 lbf)

Maximum grade

35°/70%

WEIGHT

Operating weight, including 5,200 mm (17'1") one-piece boom and 2,600 mm (8'6") one-piece boom, or 1,940+3,820 mm (6'4" + 12'6") two-piece boom, 2,300mm (7'7") arm, operator, lubricant, coolant, full fuel tank and the standard equipment. Weights are with 616kg (1,358 lb) bucket.

Undercarri	age type	Operating weight	Operating weight	
Front attach	Rear attach	(One-piece Boom)	(Two-piece Boom)	
Cradle	Dozer	17,770 kg (39,176 lb)	18,270 kg (40,278 lb)	
Cradle	Outrigger	17,920 kg (39,507 lb)	18,410 kg (40,587 lb)	
Dozer	Outrigger	18,850 kg (41,557 lb)	19,330 kg (42,615 lb)	
Outrigger	Dozer	18,910 kg (41,689 lb)	19,390 kg (42,748 lb)	
Outrigger	Outrigger	19,050 kg (41,998 lb)	19,530 kg (43,056 lb)	

HYDRAULIC SYSTEM

The heart of the system is the e-EPOS (Electronic Power Optimizing System). It allows the efficiency of the system to be optimized for all working conditions and minimizes fuel consumption. The new e-EPOS is connected to the engine electronic control via a data transfer link to harmonize the operation of the engine and hydraulics.

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

Main pumps

2 variable displacement axial piston pumps max flow: 2 x 200 l/min (2 X 52.8US gpm, 2 X 44 lmp gpm)

Pilot pump

Gear pump - max flow: 26.1 l/min (6.9US gpm, 5.7 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)

SWING MECHANISM

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

Swing speed: 0 to 10.9 rpm

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 shockfree operation and extend piston life.

[One-piece Boom]			
Cylinders	Quantity	Bore x Rod diameter x stroke	
Boom	2	120 X 85 X 1,195mm(4.7" X 3.3" X 3'11")	
Arm	1	125 X 90 X 1,470mm(4.9" X 3.5" X 4'10")	
Bucket	1	115 X 80 X 1,025mm(4.5" X 3.1" X 3'4")	
[Two pieco	Poom 1		

[IWO-piece i	Joonin J	
Cylinders	Quantity	Bore x Rod diameter x stroke
Boom	2	120 X 85 X 1,030mm(4.7" X 3.3" X 3'5")
Two-piece Bo	om 1	160 X 95 X 760mm(6.3" X 3.7" X 2'6")
Arm	1	125 X 90 X 1,470mm(4.9" X 3.5" X 4'10")
Bucket	1	115 X 80 X 1,025mm(4.5" X 3.1" X 3'4")

BUCKET

							Recommendation		
Сара	acity	Wi	dth			5,200mm (17'1") One-piece Boom	· ·	n (17'7") ce Boom	
PCSA, heaped	LSA, LELE side sid		With side cutters	Weight	2,200mm (7'3")Arm	2,600mm (8'6")Arm	3,100mm (10'2")Arm	2,300mm (7'7")Arm	2,600mm (8'6")Arm
0.38m ³ (0.5yd ³)	0.35m ³	604mm (2')	640mm (2'1")	441 kg (972 lb)	А	A	А	A	А
0.45m ³ (0.59yd ³)	0.41m ³	727mm (2'5")	775mm (2 ' 7")	465 kg (1,025 lb)	А	A	A	A	А
0.57m ³ (0.75yd ³)	0.51m ³	865.2mm (2'10")	913.2mm (3')	520 kg (1,146 lb)	А	A	В	A	А
0.70m ³ (0.92yd ³)	0.62m ³	1,015mm (3'4")	1,063mm (3'6")	567 kg (1,250 lb)	А	В	С	A	A
0.76m ³ (1yd ³)	0.67m ³	1,079mm (3'6")	1,127mm (3'8")	602 kg (1,327 lb)	В	В	С	A	В
0.8m ³ (1.05yd ³)	0.7m ³	1,123mm (3'8")	1,171mm (3'10")	616 kg (1,358 lb)	В	С	-	В	С
0.93m ³ (1.22yd ³)	0.81m ³	1,267mm (4'2")	1,315mm (4'4")	664 kg (1,332 lb)	C	-	-	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

ENVIRONMENT

Noise levels comply with environmental regulations (dynamic values).

LwA External sound level 101 dB(A) (2000/14/EC)

LPA Operator sound level

74 dB(A) (ISO 6396)

REFILL CAPACITIES

Fuel tank

310 l (81.9 US gal, 68.2 Imp gal)

Cooling system (Radiator capacity)

24 l (6.3 US gal, 5.3 Imp gal)

Engine oil

25 l (6.6 US gal, 5.5 Imp gal)

Swing drive

3.8 l (10 US gal, 0.8 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

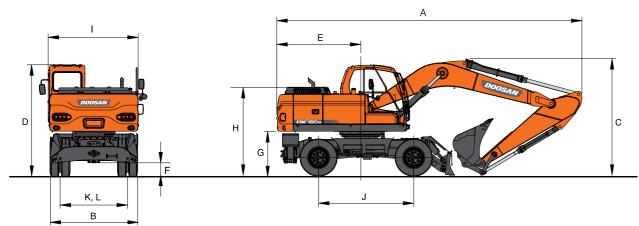
205 l (54.2 US gal, 45.1 Imp gal)

Hydraulic tank

116 l (51.7 US gal, 43.1 Imp gal)

DIMENSIONS

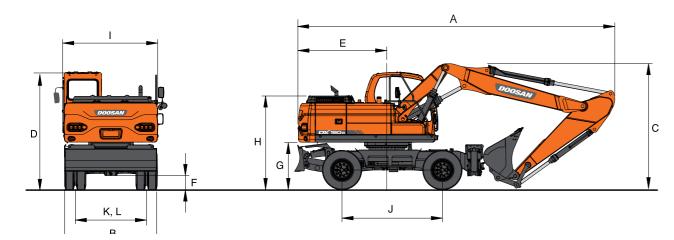
[One-piece Boom]



DIMENSIONS

Boom type (One-piece)		5,200mm(17'1")	
Arm type	2,400mm(8'6")	2,600mm(8'6")	3,100mm(10'2")
A Shipping Length	8,715mm(28'7")	8,659mm(28'5")	8,507mm(24'6")
B Shipping Width	\rightarrow	2,496mm(8'2")	←
C Shipping Height (Boom)	3,212mm(10'6")	3,310mm(10'10")	3,772mm(12'5")
D Height Over Cab.	\rightarrow	3,135mm(10'3")	←
E Counter Weight Swing Clearance	→	2,450mm(8')	←
F Ground Clearance	→	350mm(1'2")	←
G Counter Weight Clearance	\rightarrow	1,249mm(4'1")	←
H Engine Cover Height	\rightarrow	2,530mm(8'4")	←
I Upper Housing Width	\rightarrow	2,494mm(8'2")	←
J Wheel Base	\rightarrow	2,700mm(8'10")	←
K,L Tread Width	→ →	1,944mm(6'5")	←

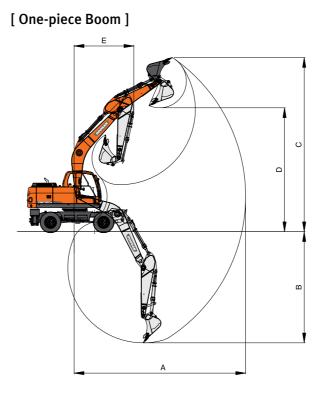
[Two-piece Boom]



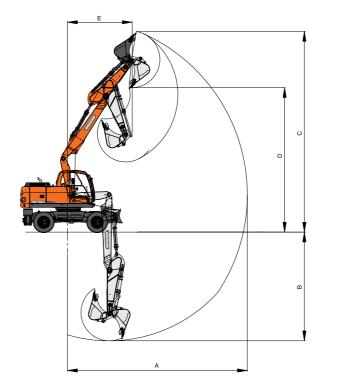
DIMENSIONS

Boom type (Two-piece)	5,360mi	m(17'7")
Arm type	2,300mm(7'7")	2,600mm(8'6")
A Shipping Length	8,860mm(29'1")	8,610mm(28'3")
B Shipping Width	2,496mm(8'2")	←
C Shipping Height (Boom)	3,140mm(10'4")	3,360mm(11')
D Height Over Cab.	3,135mm(10'3")	←
E Counter Weight Swing Clearance	2,450mm(8')	←
F Ground Clearance	350mm(1'2")	←
G Counter Weight Clearance	1,249mm(4'1")	←
H Engine Cover Height	2,530mm(8'4")	←
I Upper Housing Width	2,494mm(8'2")	←
J Wheel Base	2,700mm(8'10")	←
K,L Tread Width	1,944mm(6'5")	→

WORKING RANGES



[Two-piece Boom]



DIGGING FORCE (ISO)

Bucket (PCSA)	0.38m ³	0.45m ³	0.57m ³	0.70m ³	0.76m ³	0.80m ³	0.93m ³		
	14,200 kgf								
Digging force	139.25 kN								
	31,305 lbf								
Arm	2.20	Omm	2.300mm		2.600mm		3.100mm		
	· · · · ·	00 kgf	9,900 kgf		9,300 kgf		8,500 kgf		
Digging force	105.	.91 kN	97.08 kN		91.20 kN		83.36 kN		
	23.8	10 lbf	21,816 lb	f	20,503 lbf		18,739 lbf		

At power boost (ISO)

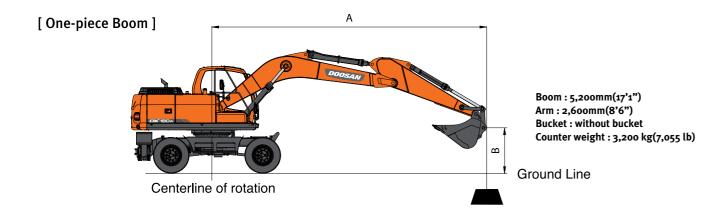


WORKING RANGES

Boo	m type (One-piece)	5,200mm (17'1")		
Arm	type	2,200mm (7'3")	2,600mm (8'6")	3,100mm (10'2")
Α	Max. Digging Reach	8,830mm (29')	9,200mm (30'2")	9,560mm (31'4")
В	Max. Digging Depth	5,565mm (18'3")	5,965mm (19'7")	6,465mm (21'3")
с	Max. Digging Height	9,115mm (29'11")	9,340mm (30'8")	9,270mm (30'5")
D	Max. Dump Height	6,420m (21'1")	6,650mm (21'10")	6,645mm (21'10")
E	Min. Swing Radius	3,195mm (10'6")	3,200mm (10'6")	3,185mm (10'5")

WORKING RANGES

Boo	om type (Two-piece)	5,360mm (17'7")	
Arm type		2,300mm (7'7")	2,600m (8'6")
A	Max. Digging Reach	9,235mm (30'3")	9,530mm (31'3")
В	Max. Digging Depth	5,600mm (18'4")	5,900mm (19'4")
с	Max. Digging Height	10,260mm (33'8")	10,510mm (34'6")
D	Max. Dump Height	7,415mm (24'4")	7,660mm (25'2")
E	Min. Swing Radius	2,965mm (9'9")	3,160mm (10'4")



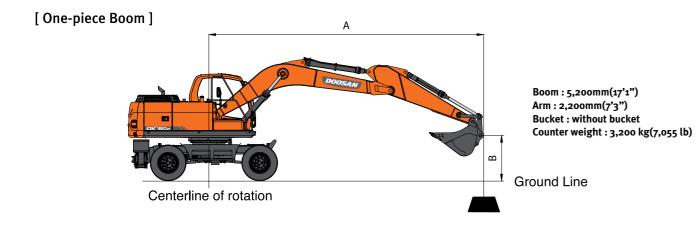
A(m)	Changin Francis Attachment		2		3		4	-	5		6		7		Max. Read	<u>h</u>
B(m)	Chassis Frame Attachment	Ъ	(]	Ъ	(]	-	(d a	ł	(]	ŀ	(‡=	ľ	(Ha	l F	(‡	A(m)
	R-Rear Dozer Only Up													*3.84	*3.84	-
	R-Rear Dozer Only Down													*3.84	*3.84	1
8	R-Outrigger Only Down													*3.84	*3.84	4.72
	F-Dozer + R-Outrigger Down													*3.84	*3.84	1
	R-Rear Dozer Only Up													*3.51	3.29	
	R-Rear Dozer Only Down													*3.51	*3.51	1 _
7	R-Outrigger Only Down													*3.51	*3.51	5.83
	F-Dozer + R-Outrigger Down													*3.51	*3.51	1
	R-Rear Dozer Only Up									*5.09	3.17			*3.37	2.72	
	R-Rear Dozer Only Down									*5.09	4.09			*3.37	*3.37	1
6	R-Outrigger Only Down									5.00	*5.09			*3.37	*3.37	6.59
	F-Dozer + R-Outrigger Down									*5.09	*5.09			*3.37	*3.37	1
	R-Rear Dozer Only Up							*5.84	4.12	5.23	3.14	*4.03	2.47	*3.33	2.39	<u> </u>
	R-Rear Dozer Only Down							*5.84	5.36	5.12	4.06	*4.03	3.20	*3.33	3.10	1
5	R-Outrigger Only Down							*5.84	*5.84	4.97	*5.57	3.90	*4.03	*3.33	*3.33	7.13
	F-Dozer + R-Outrigger Down	+						*5.84	*5.84	*5.57	*5.57	*4.03	*4.03	*3.33	*3.33	1
	R-Rear Dozer Only Up			*9.56	8.52	*7.57	5.53	*6.54	4.01	5.17	3.08	4.10	2.45	*3.36	2.20	
	R-Rear Dozer Only Down			*9.56	*9.56	*7.57	7.37	*6.54	5.24	5.06	4.00	4.01	3.18	*3.36	2.86	1
4	R-Outrigger Only Down			*9.56	*9.56	*7.57	*7.57	6.49	*6.54	4.90	5.79	3.88	4.56	*3.36	*3.36	7.50
	F-Dozer + R-Outrigger Down	-		*9.56	*9.56	*7.57	*7.57	*6.54	*6.54	*5.94	5.79	*5.45	4.56	*3.36	*3.36	1
	R-Rear Dozer Only Up	-		7.50	7.50	*9.11	5.28	6.68	3.88	5.09	3.00	4.06	2.41	*3.44	2.08	
	R-Rear Dozer Only Down					*9.11	7.09	6.54	5.10	4.97	3.92	3.96	3.14	3.43	2.00	1
3	R-Outrigger Only Down					9.03	*9.11	6.34	*7.39	4.97	5.70	3.83	4.51	3.32	*3.44	7.7
						*9.11	*9.11	*7.39	*7.39	*6.42	5.70	*5.83	4.51	*3.44	*3.44	-
	F-Dozer + R-Outrigger Down					9.11	5.06	6.54	3.75	5.00	2.93	4.01	2.37	3.44	2.03	
	R-Rear Dozer Only Up	-				9.24		6.39					3.09			7.79
2	R-Rear Dozer Only Down						6.85		4.96	4.89	3.84	3.92		3.35	2.65	
	R-Outrigger Only Down					8.75	*10.50	6.19	7.43	4.73	5.61	3.79	4.46	3.24	*3.59	
	F-Dozer + R-Outrigger Down					*10.50	*10.50	*8.20	7.43	*6.90	5.61	*6.09	4.46	*3.59	*3.59	
	R-Rear Dozer Only Up					9.06	4.91	6.42	3.65	4.93	2.86	3.97	2.33	3.45	2.03	-
1	R-Rear Dozer Only Down					8.86	6.68	6.82	4.86	4.82	3.77	3.87	3.05	3.37	2.66	7.74
	R-Outrigger Only Down					8.57	10.56	6.07	7.30	4.66	5.54	3.74	4.42	3.25	*3.80	-
	F-Dozer + R-Outrigger Down					*11.35	10.56	*8.81	7.30	*7.29	5.54	*6.30	4.42	*3.80	*3.80	<u> </u>
	R-Rear Dozer Only Up			*5.74	*5.74	8.97	4.84	6.35	3.58	4.88	2.82	3.94	2.30	3.55	2.08	-
(Ground)	R-Rear Dozer Only Down			*5.74	*5.74	8.77	6.60	6.20	4.79	4.77	3.72	3.85	3.02	3.47	2.73	7.5
	R-Outrigger Only Down			*5.74	*5.74	8.48	10.47	6.00	7.23	4.61	5.48	3.72	4.39	3.35	3.95	-
	F-Dozer + R-Outrigger Down			*5.74	*5.74	*11.61	10.47	*9.11	7.23	*7.50	5.48	*6.36	4.39	*4.12	3.95	<u> </u>
	R-Rear Dozer Only Up	*5.29	*5.29	*8.62	7.35	8.94	4.82	6.32	3.56	4.86	2.80	3.93	2.30	3.78	2.21	-
-1	R-Rear Dozer Only Down	*5.29	*5.29	*8.62	*8.62	8.74	6.58	6.17	4.76	4.74	3.70	3.84	3.02	3.69	2.90	7.2
	R-Outrigger Only Down	*5.29	*5.29	*8.62	*8.62	8.46	10.44	5.97	7.19	4.59	5.46	3.71	4.38	3.56	4.21	
	F-Dozer + R-Outrigger Down	*5.29	*5.29	*8.62	*8.62	*11.40	10.44	*9.07	7.19	*7.45	5.46	*6.17	4.38	*4.60	4.21	<u> </u>
	R-Rear Dozer Only Up	*8.48	*8.48	*12.39	7.40	8.97	4.83	6.32	3.56	4.87	2.81			4.18	2.44	-
-2	R-Rear Dozer Only Down	*8.48	*8.48	*12.39	10.59	8.77	6.60	6.18	4.76	4.75	3.71			4.08	3.21	6.72
	R-Outrigger Only Down	*8.48	*8.48	*12.39	*12.39	8.40	10.46	5.98	7.20	4.60	5.47			3.95	4.67	1 '
	F-Dozer + R-Outrigger Down	*8.48	*8.48	*12.39	*12.39	*10.74	10.46	*8.63	7.20	*7.03	5.47			*5.36	4.67	
	R-Rear Dozer Only Up	*12.31	*12.31	*11.96	7.50	9.04	4.89	6.37	3.61	4.93	2.86			4.93	2.86	
-3	R-Rear Dozer Only Down	*12.31	*12.31	*11.96	10.69	8.83	6.66	6.23	4.81	4.81	3.77			4.81	3.77	6.00
,	R-Outrigger Only Down	*12.31	*12.31	*11.96	*11.96	8.55	*9.54	6.03	7.25	4.66	5.53			4.66	5.53	- 6.00
	F-Dozer + R-Outrigger Down	*12.31	*12.31	*11.96	*11.96	*9.54	*9.54	*7.66	7.25	*5.85	5.53			*5.85	5.53	
	R-Rear Dozer Only Up			*9.33	7.65	*7.46	5.00							*5.50	3.73	
-4	R-Rear Dozer Only Down			*9.33	*9.33	*7.46	6.78							*5.50	4.96	4.9
4	R-Outrigger Only Down			*9.33	*9.33	*7.46	*7.46							*5.50	*5.50	4.90
	F-Dozer + R-Outrigger Down			*9.33	*9.33	*7.46	*7.46							*5.50	*5.50	1

A(ft)			0'	1	5'		0'		5'		Max. Reach	n	
B(ft)	Chassis Frame Attachment	ŀ	(Fr	Ь	(Fr	Ч	(]	Ь	(Fr	Ъ	(Fr	A(ft)	
	R-Rear Dozer Only Up									*8.12	*8.12		
	R-Rear Dozer Only Down									*8.12	*8.12	1	
25	R-Outrigger Only Down									*8.12	*8.12	17.04	
	F-Dozer + R-Outrigger Down									*8.12	*8.12	1	
	R-Rear Dozer Only Up					*10.62	6.81			*7.45	6.08		
	R-Rear Dozer Only Down					*10.62	8.80			*7.45	*7.45	1	
20	R-Outrigger Only Down					*10.62	*10.62			*7.45	*7.45	21.42	
	F-Dozer + R-Outrigger Down					*10.62	*10.62			*7.45	*7.45		
	R-Rear Dozer Only Up			*14.02	10.23	11.21	6.71			*7.35	5.06		
	R-Rear Dozer Only Down			*14.02	13.42	10.97	8.69			*7.35	6.58	1	
15	R-Outrigger Only Down			*14.02	*14.02	10.63	*12.51			*7.35	*7.35	23.9	
	F-Dozer + R-Outrigger Down			*14.02	*14.02	*12.51	*12.51			*7.35	*7.35	1	
10	R-Rear Dozer Only Up	*27.19	17.16	16.94	9.69	10.96	6.48	7.89	4.68	*7.57	4.60	- 25.28	
	R-Rear Dozer Only Down	*27.19	24.12	16.58	12.83	10.72	8.46	7.70	6.10	*7.57	6.00		
	R-Outrigger Only Down	*27.19	*27.19	16.07	*17.51	10.38	12.27	7.45	8.75	7.32	*7.57		
	F-Dozer + R-Outrigger Down	*27.19	*27.19	*17.51	*17.51	*13.95	12.27	*8.89	8.75	*7.57	*7.57		
	R-Rear Dozer Only Up			16.34	9.18	10.70	6.25	7.79	4.59	7.56	4.46	-	
	R-Rear Dozer Only Down			15.98	12.28	10.46	8.21	7.61	6.01	7.38	5.83		
5	R-Outrigger Only Down			15.47	18.74	10.12	12.00	7.36	8.66	7.14	*8.11	25.5	
	F-Dozer + R-Outrigger Down			*20.72	18.74	*15.44	12.00	*10.90	8.66	*8.11	*8.11	1	
	R-Rear Dozer Only Up	*13.23	*13.23	16.01	8.90	10.52	6.09			7.83	4.60		
	R-Rear Dozer Only Down	*13.23	*13.23	15.65	11.98	10.28	8.04			7.65	6.03	1	
O (Ground)	R-Outrigger Only Down	*13.23	*13.23	15.14	18.38	9.94	11.81			7.39	8.71	24.7	
	F-Dozer + R-Outrigger Down	*13.23	*13.23	*22.14	18.38	*16.25	11.81			*9.09	8.71	1	
	R-Rear Dozer Only Up	*23.63	15.86	15.94	8.84	10.47	6.05			8.73	5.10		
	R-Rear Dozer Only Down	*23.63	22.62	15.58	11.91	10.23	7.99			8.52	6.71	1	
-5	R-Outrigger Only Down	*23.63	*23.63	15.07	18.31	9.89	11.76			8.24	9.74	22.8	
	F-Dozer + R-Outrigger Down	*23.63	*23.63	*21.49	18.31	*15.76	11.76			*10.91	9.74	-	
	R-Rear Dozer Only Up	*25.85	16.13	16.09	8.97					10.97	6.37		
	R-Rear Dozer Only Down	*25.85	22.94	15.73	12.05					10.72	8.39	1	
-10	R-Outrigger Only Down	*25.85	*25.85	15.22	*18.42					10.37	12.32	- 19.5	
	F-Dozer + R-Outrigger Down	*25.85	*25.85	*18.42	*18.42					*12.88	12.32	1	

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.

Unit : 1,000lb

💾 : Rating Over Front



Metric

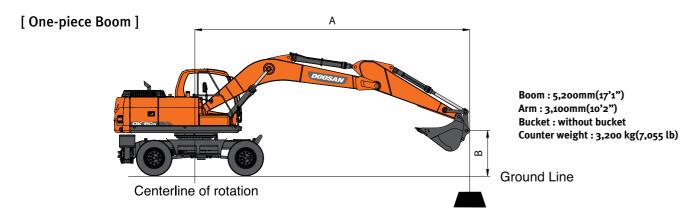
🔨 A(m)		1	2	3	3	4	ł	į	5	6	5		7	N	Aax. Read	ch
B(m)	Chassis Frame Attachment	ł	(‡	F	(]	ł	(‡	ł	(‡	Ъ	(‡	ľ	(‡	ł	(†	A(m)
	R-Rear Dozer Only Up							*6.00	4.14					*5.02	3.76	
ł	R-Rear Dozer Only Down							*6.00	5.39					*5.02	4.88	1
7	R-Outrigger Only Down							*6.00	*6.00					*5.02	*5.02	5.31
ł	F-Dozer + R-Outrigger Down							*6.00	*6.00					*5.02	*5.02	1
	R-Rear Dozer Only Up							*5.91	4.15	5.22	3.13			*4.77	3.01	
. 1	R-Rear Dozer Only Down							*5.91	5.39	5.11	4.05			*4.77	3.90	1.
6	R-Outrigger Only Down							*5.91	*5.91	4.95	*5.54			4.77	*4.77	6.14
f	F-Dozer + R-Outrigger Down							*5.91	*5.91	*5.54	*5.54			*4.77	*4.77	1
	R-Rear Dozer Only Up							*6.30	4.08	5.21	3.11			4.37	2.61	
ľ	R-Rear Dozer Only Down							*6.30	5.32	5.09	4.04			4.27	3.39	1.
5	R-Outrigger Only Down							*6.30	*6.30	4.94	5.83			4.13	*4.69	6.72
ŀ	F-Dozer + R-Outrigger Down							*6.30	*6.30	*5.94	5.83			*4.69	*4.69	1
	R-Rear Dozer Only Up					*8.23	5.45	6.79	3.97	5.15	3.06	4.08	2.43	3.99	2.38	
ŀ	R-Rear Dozer Only Down					*8.23	7.28	6.64	5.20	5.03	3.98	3.99	3.16	3.90	3.09	1
4	R-Outrigger Only Down					*8.23	*8.23	6.44	*6.97	4.88	5.76	3.86	4.54	3.77	4.43	7.10
ł	F-Dozer + R-Outrigger Down					*8.23	*8.23	*6.97	*6.97	*6.26	5.76	*5.53	4.54	*4.72	4.43	1
	R-Rear Dozer Only Up					9.41	5.20	6.64	3.84	5.07	2.99	4.05	2.40	*3.78	2.24	
ł	R-Rear Dozer Only Down					9.20	7.00	6.50	5.06	4.96	3.90	3.96	3.13	3.69	2.92	1
3	R-Outrigger Only Down					8.92	*9.73	6.29	7.54	4.80	5.68	3.83	4.50	3.57	4.20	7.33
ŀ	F-Dozer + R-Outrigger Down					*9.73	*9.73	*7.77	7.54	*6.69	5.68	*6.06	4.50	*4.84	4.20	1
	R-Rear Dozer Only Up					9.16	4.99	6.50	3.72	4.99	2.92	4.01	2.37	3.69	2.18	
ŀ	R-Rear Dozer Only Down					8.95	6.77	6.36	4.93	4.88	3.83	3.91	3.09	3.61	2.85	1
2	R-Outrigger Only Down					8.67	10.67	6.16	7.39	4.72	5.60	3.79	4.46	3.49	4.10	7.4
ł	F-Dozer + R-Outrigger Down					*10.96	10.67	*8.50	7.39	*7.12	5.60	*6.26	4.46	*5.05	4.10	1
	R-Rear Dozer Only Up					9.01	4.87	6.40	3.63	4.93	2.86	3.97	2.34	3.71	2.18	
ŀ	R-Rear Dozer Only Down					8.81	6.64	6.26	4.84	4.81	3.77	3.88	3.06	3.62	2.86	1
1	R-Outrigger Only Down					8.53	10.51	6.05	7.28	4.66	5.53	3.75	4.43	3.50	4.12	7.3
ł	F-Dozer + R-Outrigger Down					*11.56	10.51	*8.99	7.28	*7.43	5.53	*6.38	4.43	*5.38	4.12	1
	R-Rear Dozer Only Up					8.96	4.83	6.34	3.58	4.89	2.83	3.96	2.32	3.84	2.25	
ŀ	R-Rear Dozer Only Down					8.76	6.59	6.20	4.79	4.77	3.73	3.86	3.04	3.75	2.95	1
(Ground)	R-Outrigger Only Down					8.47	10.45	6.00	7.22	4.62	5.49	3.73	4.41	3.62	4.27	7.16
ŀ	F-Dozer + R-Outrigger Down					*11.58	10.45	*9.15	7.22	*7.53	5.49	*6.33	4.41	*5.87	4.27	1
	R-Rear Dozer Only Up			*8.80	7.39	8.96	4.83	6.33	3.57	4.88	2.82	0.55	4.41	4.11	2.41	
ŀ	R-Rear Dozer Only Down			*8.80	*8.80	8.76	6.59	6.18	4.77	4.76	3.72			4.02	3.16	1
-1	R-Outrigger Only Down			*8.80	*8.80	8.47	10.45	5.98	7.21	4.61	5.48			3.88	4.59	6.8
ŀ	F-Dozer + R-Outrigger Down			*8.80	*8.80	*11.15	10.45	*8.96	7.21	*7.35	5.48			*6.19	4.59	1
	R-Rear Dozer Only Up	*9.45	*9.45	*12.76	7.46	9.00	4.87	6.35	3.59	4.90	2.84			4.62	2.70	
ŀ	R-Rear Dozer Only Down	*9.45	*9.45	*12.76	10.65	8.80	6.63	6.21	4.79	4.79	3.75			4.52	3.55	1
-2	R-Outrigger Only Down	*9.45	*9.45	*12.76	*12.76	8.52	*10.30	6.01	7.23	4.63	5.51			4.37	5.18	6.2
ł	F-Dozer + R-Outrigger Down	*9.45	*9.45	*12.76	*12.76	*10.30	*10.30	*8.34	7.23	*6.69	5.51			*6.18	5.18	-
	R-Rear Dozer Only Up	*13.23	*13.23	*10.85	7.56	*8.84	4.94	6.43	3.66	0.09	5.51			5.62	3.25	
ł	R-Rear Dozer Only Down	*13.23	*13.23	*10.85	10.77	*8.84	4.94 6.72	6.28	4.86					5.62	4.29	-
-3	R-Rear Dozer Only Down	*13.23	*13.23	*10.85	*10.85	^8.84 8.61	*8.84	6.08	*7.04					5.49	*6.00	5.5
ł				*10.85	*10.85	*8.84	*8.84		-					*6.00		-
	F-Dozer + R-Outrigger Down	*13.23	*13.23					*7.04	*7.04						*6.00	-
	R-Rear Dozer Only Up R-Rear Dozer Only Down			*7.78	7.75	*6.14	5.09							*5.33	4.54	-
		1	1	*7.78	*7.78	^6.14	*6.14		1			1	1	*5.33	*5.33	1 1 1
-4	R-Outrigger Only Down	+		*7.78	*7.78	*6.14	*6.14							*5.33	*5.33	4.36

Unit : 1,000kg

A(ft)			10'	15	; '	2	0'		Max. Reach		
B(ft)	Chassis Frame Attachment	Ъ			· Ľ	 (=	l L	F		A(ft)	
	R-Rear Dozer Only Up							*11.75	10.27		
	R-Rear Dozer Only Down							*11.75	*11.75		
25	R-Outrigger Only Down							*11.75	*11.75	15.10	
	F-Dozer + R-Outrigger Down							*11.75	*11.75		
	R-Rear Dozer Only Up							*10.56	6.76		
	R-Rear Dozer Only Down							*10.56	8.75		
20	R-Outrigger Only Down							*10.56	*10.56	19.92	
	F-Dozer + R-Outrigger Down							*10.56	*10.56		
	R-Rear Dozer Only Up			*15.16	10.13	11.16	6.66	9.21	5.50		
	R-Rear Dozer Only Down			*15.16	13.30	10.91	8.64	9.00	7.14		
15	R-Outrigger Only Down			*15.16	*15.16	10.57	12.48	8.72	10.25	22.65	
	F-Dozer + R-Outrigger Down			*15.16	*15.16	*13.28	12.48	*10.35	10.25		
	R-Rear Dozer Only Up			16.80	9.58	10.92	6.45	8.35	4.96		
	R-Rear Dozer Only Down			16.44	12.71	10.68	8.42	8.16	6.46		
10	R-Outrigger Only Down			15.93	*18.52	10.34	12.23	7.89	9.28	24.03	
	F-Dozer + R-Outrigger Down			*18.52	*18.52	*14.54	12.23	*10.65	9.28		
	R-Rear Dozer Only Up			16.25	9.11	10.68	6.24	8.13	4.80		
_	R-Rear Dozer Only Down			15.89	12.20	10.44	8.19	7.94	6.27		
5	R-Outrigger Only Down			15.38	18.64	10.10	11.98	7.67	9.03	24.30	
	F-Dozer + R-Outrigger Down			*21.34	18.64	*15.82	11.98	*11.45	9.03		
	R-Rear Dozer Only Up			15.99	8.89	10.54	6.11	8.46	4.97		
	R-Rear Dozer Only Down			15.63	11.96	10.29	8.05	8.26	6.51		
O (Ground)	R-Outrigger Only Down			15.12	18.36	9.95	11.83	7.99	9.42	23.50	
	F-Dozer + R-Outrigger Down			*22.20	18.36	*16.33	11.83	*12.95	9.42		
	R-Rear Dozer Only Up	*25.67	15.96	15.99	8.89	10.54	6.11	9.57	5.60		
_	R-Rear Dozer Only Down	*25.67	22.73	15.63	11.96	10.30	8.06	9.35	7.35	21.50	
-5	R-Outrigger Only Down	*25.67	*25.67	15.12	18.36	9.96	11.83	9.04	10.70	21.50	
	F-Dozer + R-Outrigger Down	*25.67	*25.67	*20.97	18.36	*15.30	11.83	*13.65	10.70		
	R-Rear Dozer Only Up	*23.44	16.28	16.21	9.08			12.55	7.25		
10	R-Rear Dozer Only Down	*23.44	23.10	15.85	12.17			12.26	9.57	17.90	
-10	R-Outrigger Only Down	*23.44	*23.44	15.34	*17.01			11.87	*13.20	17.90	
	F-Dozer + R-Outrigger Down	*23.44	*23.44	*17.01	*17.01			*13.20	*13.20	1	

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.





A(m)			2	1	3		4	5	5		6	7	7	;	В	M	ax. Read	ch
B(m)	Chassis Frame Attachment	Ъ	–		- -	F	(====	- Th	(]	Ъ	- -	ł	(Ъ	- -	Ъ	(Hana)	A(m)
	R-Rear Dozer Only Up	+ -		<u> </u>		<u> </u>				<u> </u>				<u> </u>		*3.44	*3.44	
	R-Rear Dozer Only Down															*3.44	*3.44	1
8	R-Outrigger Only Down															*3.44	*3.44	5.30
	F-Dozer + R-Outrigger Down															*3.44	*3.44	
	R-Rear Dozer Only Up									*3.91	3.17					*3.24	2.93	
	R-Rear Dozer Only Down									*3.91	*3.91					*3.24	*3.24	
7	R-Outrigger Only Down									*3.91	*3.91					*3.24	*3.24	6.30
	F-Dozer + R-Outrigger Down									*3.91	*3.91					*3.24	*3.24	1
	R-Rear Dozer Only Up									*4.70	3.18	*3.19	2.47			*3.16	2.46	
	R-Rear Dozer Only Down									*4.70	4.11	*3.19	*3.19			*3.16	*3.16	
6	R-Outrigger Only Down									*4.70	*4.70	*3.19	*3.19			*3.16	*3.16	7.01
	F-Dozer + R-Outrigger Down									*4.70	*4.70	*3.19	*3.19			*3.16	*3.16	1
	R-Rear Dozer Only Up									*5.05	3.14	4.12	2.46			*3.15	2.18	
	R-Rear Dozer Only Down									*5.05	4.06	4.03	3.20			*3.15	2.85	
5	R-Outrigger Only Down									4.97	*5.05	3.90	*4.44			*3.15	*3.15	7.52
	F-Dozer + R-Outrigger Down									*5.05	*5.05	*4.44	*4.44			*3.15	*3.15	1
	R-Rear Dozer Only Up							*5.92	4.02	5.17	3.07	4.08	2.42			*3.20	2.01	
.	R-Rear Dozer Only Down							*5.92	5.26	5.05	3.99	3.99	3.16			*3.20	2.63	- 0-
4	R-Outrigger Only Down							*5.92	*5.92	4.90	*5.46	3.86	4.54			*3.20	*3.20	7.87
ĺ	F-Dozer + R-Outrigger Down							*5.92	*5.92	*5.46	*5.46	*5.18	4.54			*3.20	*3.20	
	R-Rear Dozer Only Up			*11.07	8.11	*8.20	5.32	6.69	3.87	5.07	2.98	4.03	2.37	3.29	1.93	3.25	1.90	
_	R-Rear Dozer Only Down			*11.07	*11.07	*8.20	7.14	6.54	5.10	4.95	3.90	3.93	3.10	3.22	2.54	3.17	2.50	0
3	R-Outrigger Only Down			*11.07	*11.07	*8.20	*8.20	6.34	*6.80	4.80	5.69	3.81	4.49	3.11	*3.64	3.06	*3.31	8.07
ĺ	F-Dozer + R-Outrigger Down			*11.07	*11.07	*8.20	*8.20	*6.80	*6.80	*5.99	5.69	*5.47	4.49	*3.64	*3.64	*3.31	*3.31	
	R-Rear Dozer Only Up			*7.95	7.56	9.25	5.05	6.52	3.72	4.97	2.89	3.97	2.32	3.26	1.90	3.18	1.85	
	R-Rear Dozer Only Down			*7.95	*7.95	9.05	6.85	6.37	4.94	4.85	3.80	3.87	3.05	3.19	2.51	3.10	2.44	8.15
2	R-Outrigger Only Down			*7.95	*7.95	8.77	*9.73	6.17	7.41	4.70	5.58	3.74	4.42	3.08	3.63	2.99	*3.47	0.15
ĺ	F-Dozer + R-Outrigger Down			*7.95	*7.95	*9.73	*9.73	*7.69	7.41	*6.53	5.58	*5.79	4.42	*4.19	3.63	*3.47	*3.47	
	R-Rear Dozer Only Up			*5.99	*5.99	9.01	4.85	6.37	3.59	4.88	2.81	3.91	2.27	3.23	1.88	3.18	1.85	
1	R-Rear Dozer Only Down			*5.99	*5.99	8.81	6.63	6.23	4.80	4.76	3.72	3.82	2.99	3.16	2.48	3.10	2.44	8.10
1	R-Outrigger Only Down			*5.99	*5.99	8.52	10.52	6.02	7.26	4.61	5.49	3.69	4.37	3.05	3.60	3.00	3.53	0.10
	F-Dozer + R-Outrigger Down			*5.99	*5.99	*10.84	10.52	*8.42	7.26	*7.00	5.49	*6.07	4.37	*4.27	3.60	*3.70	3.53	
	R-Rear Dozer Only Up			*6.94	*6.94	8.87	4.74	6.27	3.50	4.81	2.75	3.87	2.23			3.26	1.89	
) (Ground)	R-Rear Dozer Only Down			*6.94	*6.94	8.67	6.50	6.13	4.71	4.70	3.65	3.78	2.95			3.18	2.50	7.92
J (dround)	R-Outrigger Only Down			*6.94	*6.94	8.38	10.37	5.92	7.15	4.54	5.41	3.65	4.32			3.07	3.63	7.92
	F-Dozer + R-Outrigger Down			*6.94	*6.94	*11.39	10.37	*8.88	7.15	*7.31	5.41	*6.24	4.32			*4.04	3.63	1
	R-Rear Dozer Only Up	*5.59	*5.59	*8.94	7.15	8.81	4.69	6.22	3.46	4.77	2.71	3.85	2.21			3.44	1.99	
-1	R-Rear Dozer Only Down	*5.59	*5.59	*8.94	*8.94	8.61	6.45	6.07	4.66	4.66	3.62	3.76	2.93			3.36	2.63	7.60
-	R-Outrigger Only Down	*5.59	*5.59	*8.94	*8.94	8.32	10.30	5.87	7.09	4.50	5.37	3.63	4.30			3.24	3.84	,
	F-Dozer + R-Outrigger Down	*5.59	*5.59	*8.94	*8.94	*11.43	10.30	*9.01	7.09	*7.40	5.37	*6.23	4.30			*4.53	3.84	
	R-Rear Dozer Only Up	*8.07	*8.07	*11.79	7.18	8.81	4.69	6.20	3.45	4.76	2.71	3.85	2.22			3.77	2.17	1
-2	R-Rear Dozer Only Down	*8.07	*8.07	*11.79	10.35	8.61	6.45	6.06	4.65	4.65	3.61	3.76	2.94			3.68	2.88	7.13
-	R-Outrigger Only Down	*8.07	*8.07	*11.79	*11.79	8.32	10.30	5.86	7.08	4.49	5.37	3.63	4.31			3.55	4.21	,,
	F-Dozer + R-Outrigger Down	*8.07	*8.07	*11.79		*11.02	10.30	*8.78	7.08	*7.19	5.37	*5.89	4.31			*5.30	4.21	
	R-Rear Dozer Only Up	*11.05	*11.05	*12.98		8.86	4.73	6.24	3.47	4.79	2.73					4.34	2.49	1
-3	R-Rear Dozer Only Down	*11.05	*11.05			8.66	6.50	6.09	4.68	4.68	3.64					4.24	3.31	6.46
-	R-Outrigger Only Down	*11.05	*11.05		*12.98			5.89	7.11	4.52	5.40					4.09	4.87	
	F-Dozer + R-Outrigger Down	*11.05	*11.05			*10.12		*8.11	7.11	*6.53	5.40					*5.80	4.87	<u> </u>
	R-Rear Dozer Only Up	_	*14.29	*10.82			4.82	6.32	3.55							5.47	3.12	
-4	R-Rear Dozer Only Down	_	*14.29	*10.82		*8.54	6.59	6.18	4.76							5.35	4.15	5.53
	R-Outrigger Only Down		*14.29		*10.82	8.48	*8.54	5.98	*6.73							5.17	*5.76	,,,,,
	F-Dozer + R-Outrigger Down	*14.29	*14.29	*10.82	*10.82	*8.54	*8.54	*6.73	*6.73							*5.76	*5.76	
	R-Rear Dozer Only Up					*5.59	4.99									*5.29	4.75	1
-5	R-Rear Dozer Only Down					*5.59	*5.59									*5.29	*5.29	4.15
	R-Outrigger Only Down					*5.59	*5.59									*5.29	*5.29	
	F-Dozer + R-Outrigger Down	1				*5.59	*5.59									*5.29	*5.29	

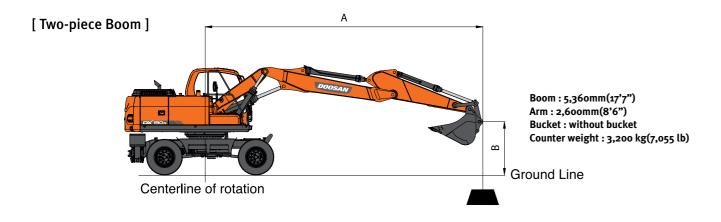
A(ft)		1	0'	1	5'	2	0'	2	5'		Max. Reach	ı
B(ft)	Chassis Frame Attachment	ŀ	(]	Ъ	(Here)	Ъ	(Hana)	ľ	(Hereita and a state of the sta	Ъ	(Hana)	A(ft)
	R-Rear Dozer Only Up									*7.37	*7.37	
Ī	R-Rear Dozer Only Down									*7.37	*7.37	
25	R-Outrigger Only Down									*7.37	*7.37	18.77
1	F-Dozer + R-Outrigger Down									*7.37	*7.37	1
	R-Rear Dozer Only Up					*10.11	6.83			*6.96	5.50	
1	R-Rear Dozer Only Down					*10.11	8.84			*6.96	*6.96	
20	R-Outrigger Only Down					*10.11	*10.11			*6.96	*6.96	22.81
	F-Dozer + R-Outrigger Down					*10.11	*10.11			*6.96	*6.96	1
	R-Rear Dozer Only Up					11.21	6.69	*7.54	4.70	*6.98	4.63	
1	R-Rear Dozer Only Down					10.97	8.68	*7.54	6.13	*6.98	6.04	1
15	R-Outrigger Only Down					10.63	*11.44	7.49	*7.54	*6.98	*6.98	25.22
1	F-Dozer + R-Outrigger Down					*11.44	*11.44	*7.54	*7.54	*6.98	*6.98	1
	R-Rear Dozer Only Up	*23.62	17.52	*15.97	9.71	10.92	6.42	7.82	4.60	7.17	4.21	
İ	R-Rear Dozer Only Down	*23.62	*23.62	*15.97	12.87	10.68	8.40	7.64	6.03	7.00	5.52	
10	R-Outrigger Only Down	*23.62	*23.62	*15.97	*15.97	10.34	12.24	7.38	8.70	6.77	*7.27	26.46
	F-Dozer + R-Outrigger Down	*23.62	*23.62	*15.97	*15.97	*13.01	12.24	*10.69	8.70	*7.27	*7.27	1
	R-Rear Dozer Only Up	*15.04	*15.04	16.28	9.09	10.60	6.14	7.68	4.48	6.99	4.06	
	R-Rear Dozer Only Down	*15.04	*15.04	15.91	12.20	10.36	8.10	7.50	5.90	6.82	5.36	
5	R-Outrigger Only Down	*15.04	*15.04	15.40	18.68	10.02	11.91	7.25	8.55	6.58	7.76	26.70
	F-Dozer + R-Outrigger Down	*15.04	*15.04	*19.55	18.68	*14.70	11.91	*12.25	8.55	*7.87	7.76	1
	R-Rear Dozer Only Up	*15.90	15.41	15.83	8.71	10.36	5.93	7.58	4.38	7.19	4.16	1
	R-Rear Dozer Only Down	*15.90	*15.90	15.46	11.79	10.12	7.88	7.40	5.80	7.02	5.50	
O (Ground)	R-Outrigger Only Down	*15.90	*15.90	14.95	18.20	9.78	11.66	7.14	8.45	6.77	8.00	25.98
1	F-Dozer + R-Outrigger Down	*15.90	*15.90	*21.60	18.20	*15.85	11.66	*12.61	8.45	*8.91	8.00	1
	R-Rear Dozer Only Up	*23.32	15.40	15.67	8.58	10.27	5.84			7.91	4.56	
_	R-Rear Dozer Only Down	*23.32	22.13	15.31	11.65	10.02	7.79			7.72	6.05	24.19
-5	R-Outrigger Only Down	*23.32	*23.32	14.80	18.04	9.68	11.56			7.46	8.83	24.19
1	F-Dozer + R-Outrigger Down	*23.32	*23.32	*21.65	18.04	*15.88	11.56			*10.77	8.83	1
	R-Rear Dozer Only Up	*28.06	15.63	15.76	8.66	10.35	5.91			9.65	5.54	
	R-Rear Dozer Only Down	*28.06	22.39	15.40	11.73	10.11	7.86			9.42	7.35	21.07
-10	R-Outrigger Only Down	*28.06	*28.06	14.89	18.13	9.77	11.64			9.10	10.82	21.07
	F-Dozer + R-Outrigger Down	*28.06	*28.06	*19.51	18.13	*13.95	11.64			*12.79	10.82	1
	R-Rear Dozer Only Up	*19.75	16.15	*13.41	9.00					*12.33	8.40	
45	R-Rear Dozer Only Down	*19.75	*19.75	*13.41	12.10					*12.33	11.25	15.04
-15	R-Outrigger Only Down	*19.75	*19.75	*13.41	*13.41					*12.33	*12.33	15.81
ł	F-Dozer + R-Outrigger Down	*19.75	*19.75	*13.41	*13.41					*12.33	*12.33	1

1. 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.

Unit : 1,000lb

💾 : Rating Over Front



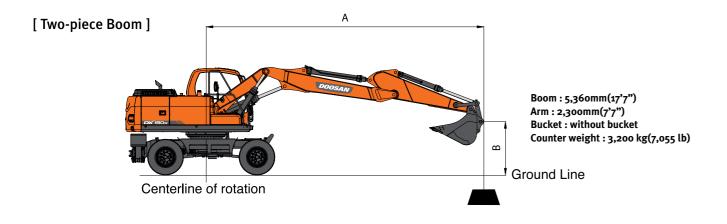
A(m)		-	3	4	•		5		6	7	7		В		Max. Rea	:h
B(m)	Chassis Frame Attachment	Ъ	(Hender State Stat	Ъ	(]	f	(]	Ъ	(Hanala)	Ъ	(Ч	(Hanala)	Ч	(Hana)	A(m)
-(,	R-Rear Dozer Only Up	<u> </u>												*4.03	*4.03	
9	R-Rear Dozer Only Down													*4.03	*4.03	
	R-Outrigger Only Down													*4.03	*4.03	3.67
	F-Dozer + R-Outrigger Down													*4.03	*4.03	1
	R-Rear Dozer Only Up					*4.47	4.15							*3.22	*3.22	<u> </u>
-	R-Rear Dozer Only Down					*4.47	*4.47							*3.22	*3.22	1
8	R-Outrigger Only Down					*4.47	*4.47							*3.22	*3.22	5.22
	F-Dozer + R-Outrigger Down					*4.47	*4.47							*3.22	*3.22	1
	R-Rear Dozer Only Up					*4.18	*4.18	*4.31	3.16					*2.89	*2.89	
	R-Rear Dozer Only Down					*4.18	*4.18	*4.31	4.09					*2.89	*2.89	-
7	R-Outrigger Only Down					*4.18	*4.18	*4.31	*4.31					*2.89	*2.89	6.23
	F-Dozer + R-Outrigger Down					*4.18	*4.18	*4.31	*4.31					*2.89	*2.89	-
						*4.29	4.10	*4.45	3.18					*2.72	2.69	
	R-Rear Dozer Only Up					*4.29	*4.29	*4.45	4.11					*2.72	*2.72	-
6	R-Rear Dozer Only Down					*4.29								*2.72	*2.72	6.95
	R-Outrigger Only Down						*4.29	*4.45	*4.45							
	F-Dozer + R-Outrigger Down			+5.00	+5.00	*4.29	*4.29	*4.45	*4.45		2 (0			*2.72	*2.72	
	R-Rear Dozer Only Up			*5.00	*5.00	*4.78	4.11	*4.67	3.14	4.14	2.48			*2.63	2.23	
5	R-Rear Dozer Only Down			*5.00	*5.00	*4.78	*4.78	*4.67	4.07	4.05	3.22			*2.63	*2.63	7.47
	R-Outrigger Only Down			*5.00	*5.00	*4.78	*4.78	*4.67	*4.67	3.92	4.61			*2.63	*2.63	
	F-Dozer + R-Outrigger Down			*5.00	*5.00	*4.78	*4.78	*4.67	*4.67	*4.72	4.61			*2.63	*2.63	
4	R-Rear Dozer Only Up			*6.36	5.51	*5.54	4.00	*5.11	3.08	4.11	2.46			*2.60	2.06	
	R-Rear Dozer Only Down			*6.36	*6.36	*5.54	5.24	5.07	4.01	4.02	3.19			*2.60	*2.60	7.81
	R-Outrigger Only Down			*6.36	*6.36	*5.54	*5.54	4.91	*5.11	3.89	4.58			*2.60	*2.60	/.0.
	F-Dozer + R-Outrigger Down			*6.36	*6.36	*5.54	*5.54	*5.11	*5.11	*4.91	4.58			*2.60	*2.60	
3	R-Rear Dozer Only Up			*8.04	5.26	*6.48	3.87	5.09	3.01	4.07	2.42	*2.91	1.98	*2.61	1.97	-
	R-Rear Dozer Only Down			*8.04	7.07	*6.48	5.10	4.98	3.92	3.98	3.15	*2.91	2.58	*2.61	2.57	8.02
2	R-Outrigger Only Down			*8.04	*8.04	6.34	*6.48	4.82	*5.67	3.85	4.53	*2.91	*2.91	*2.61	*2.61	0.02
	F-Dozer + R-Outrigger Down			*8.04	*8.04	*6.48	*6.48	*5.67	*5.67	*5.23	4.53	*2.91	*2.91	*2.61	*2.61]
	R-Rear Dozer Only Up			9.23	5.04	6.54	3.74	5.01	2.93	4.02	2.37	3.32	1.96	*2.66	1.93	
2	R-Rear Dozer Only Down			9.02	6.83	6.39	4.96	4.90	3.84	3.93	3.10	3.24	2.56	*2.66	2.52	8.10
2	R-Outrigger Only Down			8.74	*9.64	6.19	*7.43	4.74	5.62	3.80	4.48	3.13	3.68	*2.66	*2.66	0.10
	F-Dozer + R-Outrigger Down			*9.64	*9.64	*7.43	*7.43	*6.26	5.62	*5.60	4.48	*3.82	3.68	*2.66	*2.66	1
	R-Rear Dozer Only Up			9.06	4.90	6.43	3.65	4.94	2.87	3.98	2.33	3.30	1.95	*2.75	1.93	
	R-Rear Dozer Only Down			8.86	6.68	6.28	4.86	4.83	3.78	3.88	3.06	3.23	2.55	*2.75	2.53	8.05
1	R-Outrigger Only Down			8.58	10.57	6.08	7.32	4.67	5.55	3.76	4.43	3.12	*3.44	*2.75	*2.75	
	F-Dozer + R-Outrigger Down			*10.68	10.57	*8.23	7.32	*6.81	5.55	*5.95	4.43	*3.44	*3.44	*2.75	*2.75	1
	R-Rear Dozer Only Up			8.99	4.84	6.36	3.59	4.89	2.83	3.95	2.31			*2.89	1.98	
	R-Rear Dozer Only Down			8.78	6.61	6.22	4.80	4.78	3.73	3.86	3.03			*2.89	2.60	
0 (Ground)	R-Outrigger Only Down			8.50	10.49	6.01	7.24	4.62	5.50	3.73	4.40			*2.89	*2.89	7.87
	F-Dozer + R-Outrigger Down			*11.29	10.49	*8.79	7.24	*7.23	5.50	*6.23	4.40			*2.89	*2.89	
	R-Rear Dozer Only Up	*6.81	*6.81	8.97	4.83	6.33	3.56	4.87	2.81	3.94	2.30			*3.10	2.10	
	R-Rear Dozer Only Down	*6.81	*6.81	8.77	6.60	6.19	4.77	4.76	3.71	3.85	3.03			*3.10	2.75	
-1	R-Outrigger Only Down	*6.81	*6.81	8.48	10.47	5.99	7.21	4.60	5.48	3.72	4.40			*3.10	*3.10	7.55
	F-Dozer + R-Outrigger Down	*6.81	*6.81	*11.60	10.47	*9.08	7.21	*7.47	5.48	*6.36	4.40			*3.10	*3.10	1
	R-Rear Dozer Only Up	*10.44	7.44	9.00	4.85	6.34	3.57	4.88	2.81	3.97	2.33			*3.42	2.30	
	R-Rear Dozer Only Down	*10.44	*10.44	8.80	6.62	6.20	4.78	4.00	3.72	3.88	3.05			*3.42	3.02	1
-2	R-Outrigger Only Down	*10.44	*10.44	8.51	10.50	6.00	7.22	4.77	5.49	3.75	4.43			*3.42	*3.42	7.07
		*10.44	*10.44	*11.44		*9.08		*7.46	5.49	3.75 *4.71	4.43			*3.42	*3.42	-
	F-Dozer + R-Outrigger Down	10.44	10.44		10.50		7.22			"4./1	4.43					
	R-Rear Dozer Only Up			9.07	4.91	6.39	3.61	4.93	2.86					4.83	2.81	-
-3	R-Rear Dozer Only Down R-Outrigger Only Down			8.86 8.58	6.69 10.58	6.24 6.04	4.82	4.82	3.77 5.54					4.72 4.56	3.69 5.42	6.10
															5 67	<u>!</u>

A(ft)		1	0'	1	5'		0'	1	5'		Max. Reach	ı
B(ft)	Chassis Frame Attachment	ŀ	(‡ 2	ŀ	(]	Ъ	(‡	ŀ	(]	ŀ	(‡	A(ft)
	R-Rear Dozer Only Up			*9.16	*9.16					*6.75	*6.75	
. [R-Rear Dozer Only Down			*9.16	*9.16					*6.75	*6.75	1
25	R-Outrigger Only Down			*9.16	*9.16					*6.75	*6.75	18.54
	F-Dozer + R-Outrigger Down			*9.16	*9.16					*6.75	*6.75	
	R-Rear Dozer Only Up			*9.24	*9.24	*9.85	6.84			*6.02	5.58	
20	R-Rear Dozer Only Down			*9.24	*9.24	*9.85	8.84			*6.02	*6.02	1.
	R-Outrigger Only Down			*9.24	*9.24	*9.85	*9.85			*6.02	*6.02	22.62
İ	F-Dozer + R-Outrigger Down			*9.24	*9.24	*9.85	*9.85			*6.02	*6.02	1
	R-Rear Dozer Only Up			*11.54	10.22	*10.63	6.72	*6.15	4.75	*5.76	4.73	
İ	R-Rear Dozer Only Down			*11.54	*11.54	*10.63	8.71	*6.15	*6.15	*5.76	*5.76	25.04
15	R-Outrigger Only Down			*11.54	*11.54	*10.63	*10.63	*6.15	*6.15	*5.76	*5.76	
İ	F-Dozer + R-Outrigger Down			*11.54	*11.54	*10.63	*10.63	*6.15	*6.15	*5.76	*5.76	1
10	R-Rear Dozer Only Up			*15.34	9.66	10.98	6.49	7.92	4.70	*5.75	4.35	
	R-Rear Dozer Only Down			*15.34	12.81	10.74	8.47	7.74	6.13	*5.75	5.67	1
	R-Outrigger Only Down			*15.34	*15.34	10.40	12.30	7.49	8.80	*5.75	*5.75	26.3
	F-Dozer + R-Outrigger Down			*15.34	*15.34	*12.31	12.30	*11.21	8.80	*5.75	*5.75	1
	R-Rear Dozer Only Up			16.34	9.16	10.72	6.26	7.82	4.61	*5.94	4.24	26.54
	R-Rear Dozer Only Down			15.98	12.27	10.48	8.22	7.64	6.03	*5.94	5.55	
5	R-Outrigger Only Down			15.47	18.75	10.14	12.03	7.38	8.69	*5.94	*5.94	
İ	F-Dozer + R-Outrigger Down			*19.13	18.75	*14.20	12.03	*12.06	8.69	*5.94	*5.94	
	R-Rear Dozer Only Up			16.04	8.91	10.54	6.10	7.76	4.55	*6.36	4.37	
	R-Rear Dozer Only Down			15.68	11.99	10.30	8.06	7.58	5.97	*6.36	5.73	
O (Ground)	R-Outrigger Only Down			15.17	18.42	9.96	11.84	7.32	8.63	*6.36	*6.36	25.8
İ	F-Dozer + R-Outrigger Down			*21.47	18.42	*15.68	11.84	*12.66	8.63	*6.36	*6.36	1
	R-Rear Dozer Only Up	*19.43	15.93	15.99	8.86	10.50	6.06			*7.16	4.83	
_	R-Rear Dozer Only Down	*19.43	*19.43	15.63	11.95	10.26	8.01			*7.16	6.34	1
-5	R-Outrigger Only Down	*19.43	*19.43	15.12	18.37	9.92	11.80			*7.16	*7.16	24.0
	F-Dozer + R-Outrigger Down	*19.43	*19.43	*22.13	18.37	*16.25	11.80			*7.16	*7.16	1
	R-Rear Dozer Only Up			16.14	8.99					10.88	6.31	
	R-Rear Dozer Only Down			15.78	12.09					10.63	8.32	19.68
-10	R-Outrigger Only Down			15.27	18.53					10.28	12.22	
	F-Dozer + R-Outrigger Down			*20.91	18.53					*15.30	12.22	

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.

Unit : 1,000lb

💾 : Rating Over Front



🔨 A(m)			3	4	4	5	5	(6	7	7	Max. Reach		
B(m)	Chassis Frame Attachment	Ъ	(Hereita and a state of the sta	Ъ	(‡	ł	(Ha	Ъ	(Here)	Ъ	(Hana)	ŀ	(‡	A(m)
	R-Rear Dozer Only Up											*3.49	*3.49	
	R-Rear Dozer Only Down											*3.49	*3.49	1
8	R-Outrigger Only Down											*3.49	*3.49	4.74
ľ	F-Dozer + R-Outrigger Down											*3.49	*3.49	1
	R-Rear Dozer Only Up					*4.58	4.16					*3.08	*3.08	
_ [R-Rear Dozer Only Down					*4.58	*4.58					*3.08	*3.08	
7	R-Outrigger Only Down					*4.58	*4.58					*3.08	*3.08	5.84
ſ	F-Dozer + R-Outrigger Down					*4.58	*4.58					*3.08	*3.08	1
	R-Rear Dozer Only Up					*4.63	4.14	*4.77	3.13			*2.89	2.67	
6	R-Rear Dozer Only Down					*4.63	*4.63	*4.77	4.06			*2.89	*2.89	
	R-Outrigger Only Down					*4.63	*4.63	*4.77	*4.77			*2.89	*2.89	6.60
	F-Dozer + R-Outrigger Down					*4.63	*4.63	*4.77	*4.77			*2.89	*2.89	
	R-Rear Dozer Only Up			*5.47	*5.47	*5.10	4.07	*4.93	3.11	4.10	2.44	*2.79	2.36	
5	R-Rear Dozer Only Down			*5.47	*5.47	*5.10	*5.10	*4.93	4.03	4.01	3.18	*2.79	*2.79	_
	R-Outrigger Only Down			*5.47	*5.47	*5.10	*5.10	*4.93	*4.93	3.88	*4.26	*2.79	*2.79	7.14
	F-Dozer + R-Outrigger Down			*5.47	*5.47	*5.10	*5.10	*4.93	*4.93	*4.26	*4.26	*2.79	*2.79	1
4	R-Rear Dozer Only Up			*6.86	5.43	*5.86	3.95	5.14	305	4.08	2.43	*2.76	2.17	
	R-Rear Dozer Only Down			*6.86	*6.86	*5.86	5.19	5.03	3.97	3.99	3.16	*2.76	*2.76	1
	R-Outrigger Only Down			*6.86	*6.86	*5.86	*5.86	4.87	*5.34	3.86	4.54	*2.76	*2.76	7.5
	F-Dozer + R-Outrigger Down			*6.86	*6.86	*5.86	*5.86	*5.34	*5.34	*5.13	4.54	*2.76	*2.76	1
	R-Rear Dozer Only Up			*8.55	5.18	6.63	3.82	5.06	2.97	4.04	2.39	*2.77	2.06	
F	R-Rear Dozer Only Down			*8.55	6.99	6.49	5.05	4.95	3.89	3.95	3.12	*2.77	2.70	7.72
3	R-Outrigger Only Down			*8.55	*8.55	6.28	*6.78	4.79	5.67	3.82	4.50	*2.77	*2.77	
ŀ	F-Dozer + R-Outrigger Down			*8.55	*8.55	*6.78	*6.78	*5.88	5.67	*5.41	4.50	*2.77	*2.77	
	R-Rear Dozer Only Up			9.15	4.98	6.49	3.70	4.98	2.90	4.00	2.35	*2.82	2.01	
ŀ	R-Rear Dozer Only Down			8.95	6.76	6.35	4.92	4.87	3.82	3.91	3.08	*2.82	2.64	7.80
2	R-Outrigger Only Down			8.66	*10.08	6.15	7.39	4.71	5.59	3.78	4.46	*2.82	*2.82	
F	F-Dozer + R-Outrigger Down			*10.08	*10.08	*7.68	7.39	*6.44	5.59	*5.75	4.46	*2.82	*2.82	1
	R-Rear Dozer Only Up			9.01	4.86	6.40	3.62	4.92	2.85	3.96	2.32	*2.92	2.02	
F	R-Rear Dozer Only Down			8.81	6.64	6.25	4.83	4.80	3.76	3.87	3.04	*2.92	2.65	1
1	R-Outrigger Only Down			8.53	*9.51	6.05	7.28	4.65	5.53	3.74	4.42	*2.92	*2.92	7.75
F	F-Dozer + R-Outrigger Down			*9.51	*9.51	*8.42	7.28	*6.95	5.53	*6.06	4.42	*2.92	*2.92	
	R-Rear Dozer Only Up			8.96	4.82	6.34	3.57	4.88	2.81	3.94	2.30	*3.08	2.08	
	R-Rear Dozer Only Down			8.76	6.59	6.20	4.78	4.76	3.72	3.85	3.02	*3.08	2.74	Ι.
) (Ground)	R-Outrigger Only Down			8.48	10.47	5.99	7.22	4.61	5.48	3.72	4.40	*3.08	*3.08	7.56
F	F-Dozer + R-Outrigger Down			*11.13	10.47	*8.90	7.22	*7.32	5.48	*6.29	4.40	*3.08	*3.08	1
	R-Rear Dozer Only Up	*7.07	*7.07	8.97	4.82	6.32	3.56	4.86	2.80	3.94	2.30	*3.32	2.22	
	R-Rear Dozer Only Down	*7.07	*7.07	8.76	6.60	6.18	4.76	4.75	3.71	3.85	3.03	*3.32	2.91	-
-1	R-Outrigger Only Down	*7.07	*7.07	8.48	10.47	5.98	7.21	4.59	5.47	3.72	4.40	*3.32	*3.32	7.2
F	F-Dozer + R-Outrigger Down	*7.07	*7.07	*11.57	10.47	*9.11	7.21	*7.49	5.47	*6.33	4.40	*3.32	*3.32	1
	R-Rear Dozer Only Up	*11.45	7.46	9.01	4.86	6.34	3.57	4.88	2.82	0.55		*3.70	2.46	
ŀ	R-Rear Dozer Only Down	*11.45	10.67	8.80	6.63	6.20	4.78	4.77	3.73			*3.70	3.23	
-2	R-Outrigger Only Down	*11.45	*11.45	8.52	10.51	6.00	7.23	4.61	5.49			*3.70	*3.70	6.7
-	F-Dozer + R-Outrigger Down	*11.45	*11.45	*11.29	10.51	*9.00	7.23	*7.37	5.49			*3.70	*3.70	1

🔨 A(ft)		1	0'	1	5'	2	0'	2	5'		Max. Reach	ı
B(ft)	Chassis Frame Attachment	Ъ	(] =	Ъ	(]	Ŀ	(‡	Ъ	(]	Ъ	(]	A(ft)
-	R-Rear Dozer Only Up			*10.26	*10.26					*7.27	*7.27	
	R-Rear Dozer Only Down			*10.26	*10.26					*7.27	*7.27	1
25	R-Outrigger Only Down			*10.26	*10.26					*7.27	*7.27	17.09
Ī	F-Dozer + R-Outrigger Down			*10.26	*10.26					*7.27	*7.27	1
	R-Rear Dozer Only Up			*10.07	*10.07	*10.59	6.74			*6.40	5.98	
20	R-Rear Dozer Only Down			*10.07	*10.07	*10.59	8.73			*6.40	*6.40	1
	R-Outrigger Only Down			*10.07	*10.07	*10.59	*10.59			*6.40	*6.40	21.46
	F-Dozer + R-Outrigger Down			*10.07	*10.07	*10.59	*10.59			*6.40	*6.40	
15	R-Rear Dozer Only Up	*15.84	*15.84	*12.36	10.09	11.15	6.64	7.86	4.65	*6.11	4.99	
	R-Rear Dozer Only Down	*15.84	*15.84	*12.36	*12.36	10.91	8.63	7.68	6.07	*6.11	*6.11	1
	R-Outrigger Only Down	*15.84	*15.84	*12.36	*12.36	10.57	*11.17	7.42	8.73	*6.11	*6.11	24.0
	F-Dozer + R-Outrigger Down	*15.84	*15.84	*12.36	*12.36	*11.17	*11.17	*8.92	8.73	*6.11	*6.11	1
	R-Rear Dozer Only Up			*16.14	9.54	10.91	6.42	7.78	4.58	*6.10	4.55	
40	R-Rear Dozer Only Down			*16.14	12.68	10.66	8.40	7.60	6.00	*6.10	5.95	1
10	R-Outrigger Only Down			15.91	*16.14	10.32	12.22	7.35	8.65	*6.10	*6.10	- 25.3
ſ	F-Dozer + R-Outrigger Down			*16.14	*16.14	*12.77	12.22	*11.35	8.65	*6.10	*6.10	
	R-Rear Dozer Only Up			16.24	9.07	10.66	6.20			*6.31	4.43	-
_ [R-Rear Dozer Only Down			15.88	12.18	10.42	8.17			*6.31	5.81	
5	R-Outrigger Only Down			15.37	18.64	10.08	11.97			*6.31	*6.31	25.5
ſ	F-Dozer + R-Outrigger Down			*19.73	18.64	*14.55	11.97			*6.31	*6.31	1
	R-Rear Dozer Only Up			15.99	8.86	10.51	6.07			*6.80	4.59	
) (Ground)	R-Rear Dozer Only Down			15.63	11.95	10.27	8.02			*6.80	6.03	24.8
J (Ground)	R-Outrigger Only Down			15.12	18.37	9.93	11.81			*6.80	*6.80	24.0
ſ	F-Dozer + R-Outrigger Down			*21.73	18.37	*15.87	11.81			*6.80	*6.80	1
	R-Rear Dozer Only Up	*20.88	15.98	15.99	8.86	10.50	6.06			*7.72	5.13	
_ [R-Rear Dozer Only Down	*20.88	*20.88	15.62	11.94	10.26	8.01			*7.72	6.73	22.93
-5	R-Outrigger Only Down	*20.88	*20.88	15.12	18.37	9.92	11.80			*7.72	*7.72	
İ	F-Dozer + R-Outrigger Down	*20.88	*20.88	*22.04	18.37	*16.19	11.80			*7.72	*7.72	1

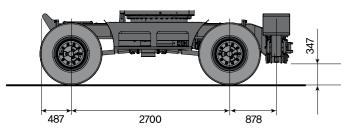
Ratings are based on SAE J1097
 Load point is the end of arm.
 * Rated loads are based on hydraulic capacity.
 Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping capacity.

Unit : 1,000lb

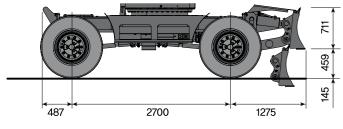
💾 : Rating Over Front

UNDERCARRIAGE

Undercarriage with front cradle and rear outrigger / front cradle and rear dozer

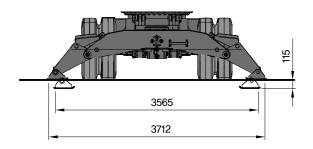


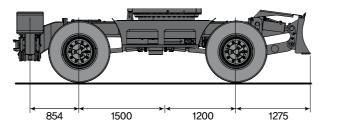
▲ Front Cradle and Rear outrigger



▲ Front Cradle and Rear Dozer

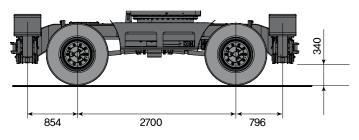
Undercarriage with front outrigger and rear dozer





2500

Undercarriage with front outrigger and rear outrigger / front dozer and rear outrigger



▲ Front Outrigger and Rear Outrigger

▲ Front Dozer and Rear Outrigger

1500

796

1200

1275

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
- 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
- \bullet Serial communication port for laptop PC interface
- \bullet Joystick lever with 3 switches
- Sunvisor
- Sun roofwiper

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

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
- 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
- 3.2ton countweight

Undercarriage

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

Others

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

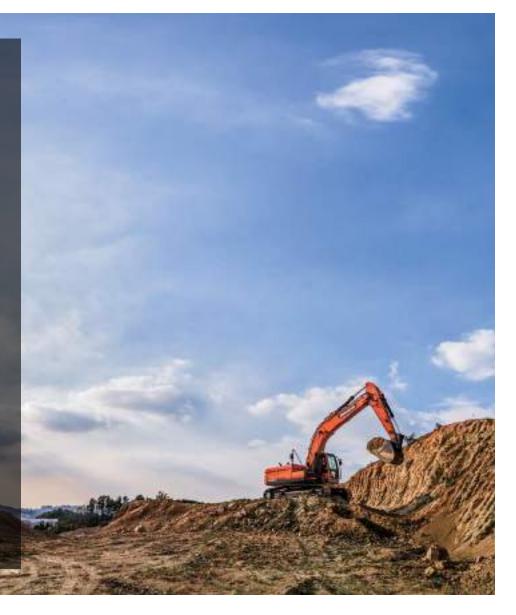
Undercarriage

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

Doosan is

Since 1896, Doosan, the oldest company in Korea, has evolved with its people. The company grew up rapidly for last 10 years with reputation. For human-oriented vision, Doosan has been building constructions, energy, machines, infra structures globally. As a global leader of infra structure, Doosan continues its vision to make human-oriented future.

First in Korea, Doosan self-developed excavators in 1985 and continued building versatile construction machines including excavators, wheel loaders, articulated dump trucks to execute its human-oriented philosophy. Doosan became a global leader of heavy construction machine industry by achieving global sales line, producing line, and distribution line. Along with large production bases in Korea, China, USA, Belgium, Czech, Brazil, Doosan has 1400 dealer networks and Doosan is providing reliable products and trusted solutions for your stable business at no risk.





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Materials and Specifications in the catalogue are subject to change without notice.

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