

DX160W









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 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 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





DOOSAN ENGINE(DB58)

Doosan product gives high performance through in-house engine.

Doosan engine(In-house) perfectly harmonized with the hydraulic system and provides strong power. Mechanical engine provides high resistance to moisture, dust, and bad fuel quality. The best engine power in the industry(132HP) provides stable working speed even in the heavy workload situation.











II NEW DRIVE LINE CONCEPT

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

HEAVY DUTY AXLES

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

ADVANCED DISC BRAKE SYSTEM

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

UNDERCARRIAGE DESIGN

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

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.

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.



















11 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.

\$ FUEL EFFICIENCY





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 DX160W prevents transfer of unnecessary flow to maintain powerful working level at the maximum value while reducing consumption of fuel.

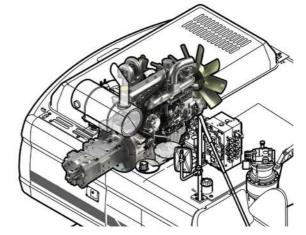


OPTIMIZED LEVER CONTROL & AUTO IDLE

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
 - Dower made
- Standand mode
- Economy mode
- 3 work modes to suit your application
- 1-way mode
- 2-way mode
- Digging mode

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



CONTROL PANEL

- Standard screen
- B Anti-theft protection
- Filter/oil information
- Operation history
- 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 fatigue.

4 COMFORTABLE 2-STAGE SLIDING SEAT

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.













II 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.

12 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.

3 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.

WATER SEPARATOR

High efficiency and large capacity water separator protect the engine by removing most moisture from the fuel.

■ AIR-CONDITIONER FILTER

Since independent air-conditioner filter for internal and external machine, fresh air is supplied indoors.

RADIATOR AND OIL COOLER

Radiator and oil cooler in high capacity and high efficiency are attached so that the best cooling function can be maintained all the time.

☑ APPLYING STAINLESS TUBE

Stainless tube is applied to oil cooler piping to prevent oil leakage.

8 SOLID SIDE DOOR

The muscular appearance and internal reinforced board in attachment type realize both good appearance and solid strength.

9 BATTERY COVER

As battery cover is applied, shor tage is prevented and customer is protected from unexpected accident.

D PUNCHING COVER IN ASTERISK SHAPE

As anti-skid cover punched in asterisk shape is added on the upper part, slippery is prevented for service to increase safety.

TIPE FUEL TANK IN HIGH CAPACITY

Thanks to the fuel tank with the maximum capacity of 280 liter in the same grade, consecutive work time is elongated.

TELEMATICS SERVICE (OPTIONAL)

GLOBAL PARTS NETWORK

TELECOMMUNICATIONS

Data flow from machine to web

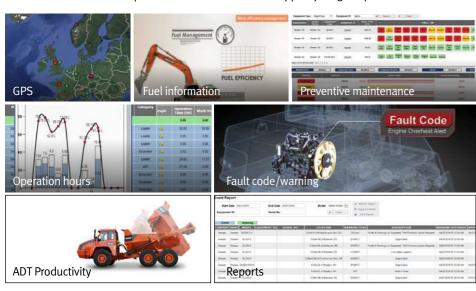






FUNCTIONS

Doosan Telematics Service provides various functions to support your great performance



TELEMATICS SERVICE BENEFITS

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

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

Doosan

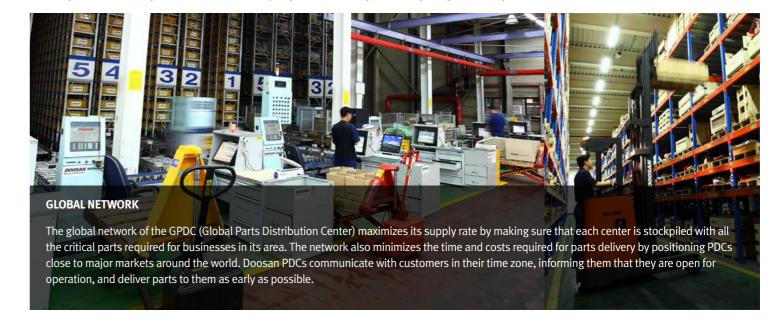
Responsive to customer's voice

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

	FUNCTION	EXCAVATOR	WHEEL LOADER	ADT	
GPS	LocationGeo-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	· Operation hours by mode	Tier 4 only Tier 4 only		All models	
Maintananaa nasta	· Preventive maintenance by item	All models	Tier 4 only	All models	
Maintenance parts	replacement cycle	All models	riei 4 only	All models	
Fault code/ Warning	· Fault code	All models	Tier 4 only	All models	
rault code/ warning	· Machine Warnings on Gauge Panel	All models	fiel 4 offig	All models	
Fuel information	· Fuel level	All models	Tier 4 only	All models	
ruetimormation	· Fuel consumption	Tier 4 only	riei 4 only	All models	
Dump capacity	· Dump tonnage	N/A	NI/A	All models	
	· Count of Work Cycle	N/A	N/A	All Houels	

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).



PDC BENEFIT



Distribution Cost Reduction



Maximum Parts supply rate



Shortest distance/time parts delivery



Real-time service support



Minimum downtime





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

including excavating, trenching, loading and medium density quarries and mining.

SD (Severe Duty) Tooth





BUCKET

DEMOLITION

General Purpose Bucket **Heavy Duty Bucket**

	Capacity (SAE/PCSA)
GENERAL PURPOSE BUCKET	$0.24 / 0.39 / 0.45 / 0.51 / 0.59 / 0.64 / 0.76 \; \text{m}^3$
HEAVY DUTY BUCKET	$0.21 / 0.31 / 0.42 / 0.52 / 0.60 / 0.67 / 0.74 \text{m}^3$







Model Tool diameter Weight HYDRAULIC BREAKER 820 BPM DXB90H 1,000 kg 107 mm Model Max. Jaw opening Weight Force at Tip FIXED PULVERIZER FP14 1,100 kg 680 mm 51 t **ROTATING CRUSHER** RC14 1,250 kg 720 mm 51 t











MATERIAL HANDLING

		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		SG14	761 kg	1,800 mm	-	0.34 m ²
WOOD GRAPPLE	L/P	WG14	700 / 630 kg	1,800 mm	-	0.48 m ²
LOG GRAPPLE	L/P	LG14	835 / 810 kg	1,800 mm	-	0.42 m ²
ORANGE GRAPPLE		OG14	1,170 kg	1,890 mm	-	0.30 m ³

L: Link type P: Pendulum type

EARTH MOVING





		•	••	
	Model	Weight	Max. Jaw opening	Capacity
CLAMSHELL BUCKET	CB14	900 kg	1,455 mm	0.37 m ³
	Model	Weight	Base plate (WxL)	Impulse force
PLATE COMPACTOR	PC14	804 kg	740 x 1,050 mm	6.4 t
	Model	Weight	Length	
RIPPER	RP14	245 kg	1,057 mm	



CONNECTING

	Model	Weight	Bucket Pin dia.	Working rage (Pin to Pin)
QUICK COUPLER	QC14	170 kg	65 mm	380 ~ 440 mm

TECHNICAL SPECIFICATIONS

ENGINE

Model

DOOSAN DB58TIS (Tier2)

Number of cylinders

6

Nominal flywheel power

99 kW(132HP) @ 2,000 rpm (SAE J1349, net)

Max torque

50 kgf.m(490 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 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 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 156.1 l/min (2 X 41.2US gpm, 2 X 34.3 lmp gpm)

Pilot pump

Gear pump - max flow: 18.5 l/min (4.9US gpm, 4.1 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: 245 kgf/cm²(240 bar)

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	110 X 75 X 1,048mm(4.3" X 2.9" X 3'5")
Arm (short)	1	115 X 80 X 1,075mm(4.5" X 3.1" X 3'6")
Bucket	1	95 X 65 X 900mm(3.7" X 2.6" X 2'11")

SWING MECHANISM

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

Swing speed: 0 to 11.3 rpm

WEIGHT

Operating weight, including 4,300 mm (14'1") one-piece boom, or 1,850+3,500 mm (6'1" + 11'6") two-piece boom, 2,100mm (6'11") arm, operator, lubricant, coolant, full fuel tank and the standard equipment. Weights are with 439kg (968 lb) bucket.

Underc	arriage type	Operating weight	Operating weight	
Front attach	Rear attach	(One-piece Boom)	(Two-piece Boom)	
Cradle	Dozer	13,750 kg (30,313 lb)	14,292 kg (31,508 lb)	
Cradle	Outrigger	14,078 kg (31,036 lb)	14,620 kg (32,231 lb)	
Dozer	Outrigger	14,658 kg (32,315 lb)	15,200 kg (33,510 lb)	
Cradle	Dozer	14,685 kg (32,374 lb)	15,227 kg (33,569 lb)	
Outrigger	Outrigger	15,013 kg (33,098 lb)	15,560 kg (34,292 lb)	

UNDERCARRIAGE

Heavy-duty frame, all-welded stress-relieve structure. Top grade materials used for toughness. Specially heat-treated connecting pins. 9.0-20-14PR double tires with tire spacer. Front axle oscillating hydraulically.

Rear dozer as a standard or outrigger as an option.

Dozer and outrigger can be installed in front and rear interchangeably.

18-19.5 20 PR tubeless single and 10.0-20 16 PR double tires as an

ENVIRONMENT

option.

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)

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 (fast/slow)

37 km/h (23 mph)

Maximum traction force

7,700 kgf (16,975 lbf)

Maximum grade

35°/70%

REFILL CAPACITIES

Fuel tank

280 l (74 US gal, 61.6 lmp gal)

Cooling system (Radiator capacity)

20 l (5.3 US gal, 4.4 Imp gal)

Engine oil

22 l (5.8 US gal, 4.8 Imp gal)

Swing drive

2 l (0.5 US gal, 0.4 Imp gal)

Power train(each)

Front Axle 2.5 l (0.66 US gal, 0.55 Imp gal) Rear Axle 2.4 l (0.63 US gal, 0.53 Imp gal) Transmission 2.5 l (0.66 US gal, 0.55 Imp gal)

Hydraulic tank

102 l (26.9 US gal, 22.4 lmp gal)

BUCKET

					C/W (ton)		1.8		2	.5
Bucket	Сара	city	Wi	dth		4.3m Boom	4.6m	4.6m Boom		Boom
Туре	SAE/PCSA	CECE	W/O Cutter	With Cutter	Weight	2.1m Arm	2.1m Arm	2.5m Arm	2.1m Arm	2.5m Arm
	0.24m³	0.22m³	458 mm	534 mm	272 kg	Α	Α	Α	Α	А
	0.39m³	0.35m ³	736 mm	820 mm	338 kg	Α	Α	Α	Α	А
General	0.45m³	0.40m³	821 mm	911 mm	376 kg	Α	Α	Α	Α	А
Purpose	0.51m ³	0.45m ³	907 mm	991 mm	389 kg	Α	Α	В	Α	А
Bucket	0.59m ³	0.51m ³	997 mm	1081 mm	408 kg	В	В	В	Α	В
	0.64m³	0.55m ³	1083 mm	1167 mm	431 kg	В	В	С	А	В
	0.76m ³	0.65m ³	1255 mm	1339 mm	479 kg	С	С	С	В	С
	0.21m³	0.20m ³	450 mm	N/A	313 kg	Α	Α	Α	Α	А
	0.31m ³	0.29m³	600 mm	N/A	372 kg	Α	Α	Α	Α	А
	0.42m³	0.38m ³	750 mm	N/A	420 kg	Α	Α	Α	Α	А
Heavy	0.52m ³	0.47m ³	900 mm	N/A	478 kg	A	В	С	Α	A
Duty Bucket	0.60m ³	0.53m ³	1,000 mm	N/A	510 kg	С	С	D	Α	A
	0.67m ³	0.60m ³	1,100 mm	N/A	542 kg	С	D	D	Α	А
	0.74m³	0.66m ³	1,200 mm	N/A	585 kg	D	D	Х	Α	В

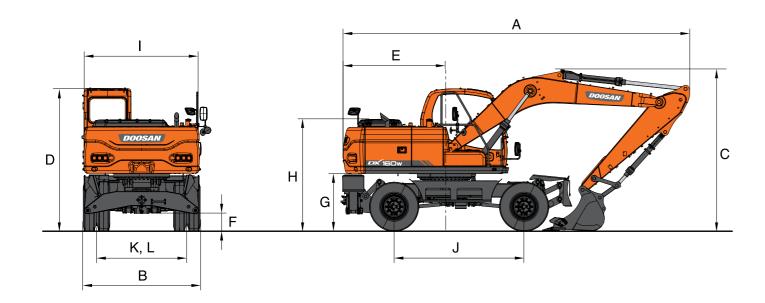
C/W (ton)

Based on ISO 10567 and SAE J296, arm length without quick change clamp

- A: Suitable for materials with density of 2100kg/m³ (3500lb/yd³) or less B: Suitable for materials with density of 1800kg/m³ (3000lb/yd³) or less
- C: Suitable for materials with density of 1500kg/m³ (2500lb/yd³) or less
- D : Suitable for materials with density of 1200kg/m $\!^{_3}$ (2000lb/yd $\!^{_3}\!)$ or less
- X : Not recommended

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

DIMENSIONS



DIMENSIONS

Boom type (One-piece)	e (One-piece) 4,300mm (14'1")		mm '1")
Arm type	2,100mm (6'11")	2,100mm(6'11") (6'11")	2,500mm (8'2")
A Shipping Length	7,235mm (23'9")	7,820mm (25'8")	7,470mm (24'6")
B Shipping Width	2,496mm (8'2")	←	←
C Shipping Height (Boom)	3,351mm (11')	3,225mm (10'7")	3,460mm (11'4")
D Height Over Cab,	3,040mm (10')	←	←
E Counter Weight Swing Clearance	2,200mm (7'3")	←	←
F Ground Clearance	350mm (1'2")	←	←
G Counter Weight Clearance	1,206mm (4')	←	←
H Engine Cover Height	2,376mm (7'10")	←	←
I Upper Housing Width	2,494mm (8'2")	←	←
J Wheel Base	2,800mm (9'2")	←	←
K,L Tread Width	1,944mm (6'5")	÷	←

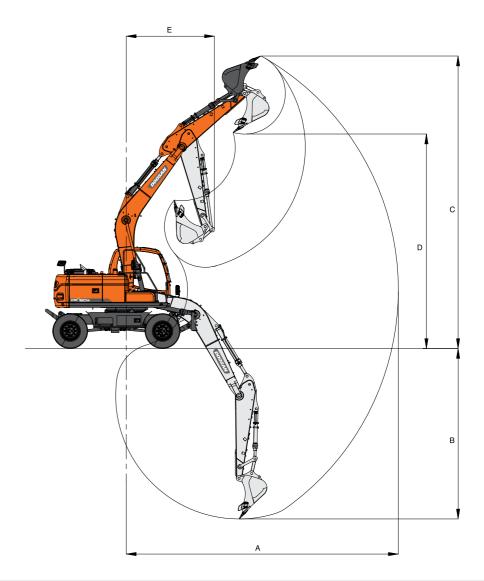
DIGGING FORCE (ISO)

Bucket (PCSA)	0.24m³	0.39m³	0.45m ³	0.51m ³	0.59m³	0.64m ³	0.76m ³
Digging force	10,140 kgf	10,140 kgf	10,140 kgf	10,140 kgf	10,140 kgf	10,140 kgf	10,140 kgf
	99.5 kN	99.5 kN	99.5 kN	99.5 kN	99.5 kN	99.5 kN	99.5 kN
	22,355 lbf	22,355 lbf	22,355 lbf	22,355 lbf	22,355 lbf	22,355 lbf	22,355 lbf

Arm	2,100mm	2,500mm
	7,650 kgf	6,550 kgf
Digging force	75.02 kN	64.23 kN
	16.865 lbf	14,440 lbf

At power boost (ISO)

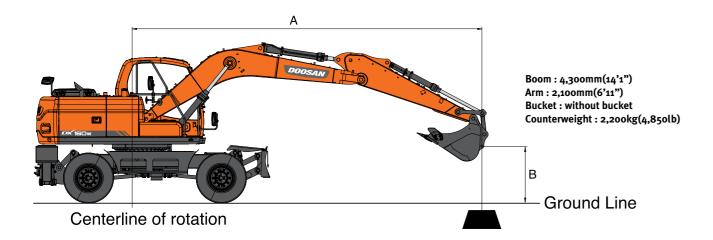
WORKING RANGES



DIMENSIONS

Boom type (One-piece) Arm type		4,300mm (14'1")	4,600mm (15'1")		
		2,100mm (6'11")	2,100mm (6'11")	2,500mm (8'2")	
Α	Max. Digging Reach	7,520mm (24'8")	7,790mm (25'7")	8,250mm (27'1")	
В	Max. Digging Depth	4,580mm (15')	4,790mm (15'9")	5,190mm (17')	
c	Max. Digging Height	8,130mm (26'8")	8,370mm (27'6")	8,850mm (29')	
D	Max. Dump Heigh	5,810mm (19'1")	6,060mm (19'11")	6,480mm (21'3")	
E	Min. Swing Radius	2,470mm (8'1")	2,570mm (8'5")	2,670mm (8'9")	

LIFTING CAPACITY



Metric Unit: 1,000kg

A(m)			3		4		5		6		Max. Reach	
B(m)	Chassis Frame Attachment	- U	(<u>u</u>	(4	(J	(ď	(A(m)
	R-Rear Dozer Only Up			*4.43	4.24					*2.97	*2.97	
_ [R-Rear Dozer Only Down			*4.43	*4.43					*2.97	*2.97	1
6	R-Outrigger Only Down			*4.43	*4.43					*2.97	*2.97	4.59
	F-Dozer + R-Outrigger Down			*4.43	*4.43					*2.97	*2.97	1
	R-Rear Dozer Only Up			*5.26	4.22	*4.18	3.02			*2.87	2.72	
_	R-Rear Dozer Only Down			*5.26	*5.26	*4.18	3.97			*2.87	*2.87	
5	R-Outrigger Only Down			*5.26	*5.26	*4.18	*4.18			*2.87	*2.87	5.36
	F-Dozer + R-Outrigger Down			*5.26	*5.26	*4.18	*4.18			*2.87	*2.87	1
	R-Rear Dozer Only Up	*7.12	6.42	*6.10	4.15	*5.51	2.99			*2.87	2.37	
. [R-Rear Dozer Only Down	*7.12	*7.12	*6.10	5.55	*5.51	3.94			*2.87	*2.87	- 06
4	R-Outrigger Only Down	*7.12	*7.12	*6.10	*6.10	*5.51	*5.51			*2.87	*2.87	5.86
	F-Dozer + R-Outrigger Down	*7.12	*7.12	*6.10	*6.10	*5.51	*5.51			*2.87	*2.87	1
	R-Rear Dozer Only Up	*9.01	6.16	*6.96	4.03	5.85	2.94	*3.91	2.27	*2.96	2.19	
_	R-Rear Dozer Only Down	*9.01	8.69	*6.96	5.43	5.85	3.88	*3.91	2.97	*2.96	2.86	
3	R-Outrigger Only Down	*9.01	*9.01	*6.96	*6.96	*5.92	5.89	*3.91	*3.91	*2.96	*2.96	6.15
	F-Dozer + R-Outrigger Down	*9.01	*9.01	*6.96	*6.96	*5.92	*5.92	*3.91	*3.91	*2.96	*2.96	1
	R-Rear Dozer Only Up			*7.82	3.92	5.78	2.88	4.36	2.24	*3.13	2.11	
	R-Rear Dozer Only Down			*7.82	5.30	5.78	3.82	4.36	2.95	*3.13	2.76	
2	R-Outrigger Only Down			*7.82	*7.82	6.06	5.82	4.57	4.39	*3.13	*3.13	6.28
	F-Dozer + R-Outrigger Down			*7.82	*7.82	*6.35	6.04	*4.97	4.56	*3.13	*3.13	1
	R-Rear Dozer Only Up	*9.08	5.76	8.28	3.82	5.71	2.83	4.33	2.22	*3.40	2.11	
	R-Rear Dozer Only Down	*9.08	8.21	8.28	5.20	5.71	3.76	4.33	2.92	*3.40	2.77	1
1	R-Outrigger Only Down	*9.08	*9.08	*8.37	8.34	6.00	5.76	4.54	4.36	*3.40	*3.40	6.24
	F-Dozer + R-Outrigger Down	*9.08	*9.08	*8.37	*8.37	*6.64	5.98	*5.36	4.53	*3.40	*3.40	1
	R-Rear Dozer Only Up	*10.23	5.71	8.21	3.77	5.67	2.80	*4.13	2.20	*3.84	2.19	
0.00	R-Rear Dozer Only Down	*10.23	8.16	8.21	5.14	5.67	3.73	*4.13	2.90	*3.84	2.89	(0)
O (Ground)	R-Outrigger Only Down	*10.23	*10.23	*8.44	8.27	5.96	5.72	*4.13	*4.13	*3.84	*3.84	6.03
	F-Dozer + R-Outrigger Down	*10.23	*10.23	*8.44	*8.44	*6.66	5.94	*4.13	*4.13	*3.84	*3.84	1
	R-Rear Dozer Only Up	*10.36	5.71	*8.00	3.76	5.66	2.79			*4.57	2.39	
-1	R-Rear Dozer Only Down	*10.36	8.16	*8.00	5.13	5.66	3.72			*4.57	3.17	- 60
-1	R-Outrigger Only Down	*10.36	*10.36	*8.00	*8.00	5.95	5.71			*4.57	*4.57	5.63
	F-Dozer + R-Outrigger Down	*10.36	*10.36	*8.00	*8.00	*6.28	5.93			*4.57	*4.57	1
	R-Rear Dozer Only Up	*8.87	5.76	*6.93	3.79	*5.12	2.82			*5.11	2.81	
_	R-Rear Dozer Only Down	*8.87	8.21	*6.93	5.16	*5.12	3.75			*5.11	3.75	
-2	R-Outrigger Only Down	*8.87	*8.87	*6.93	*6.93	*5.12	*5.12			*5.11	*5.11	5.01
	F-Dozer + R-Outrigger Down	*8.87	*8.87	*6.93	*6.93	*5.12	*5.12			*5.11	*5.11	1
	R-Rear Dozer Only Up	*6.38	5.85	*4.63	3.87					*4.54	3.82	
	R-Rear Dozer Only Down	*6.38	*6.38	*4.63	*4.63					*4.54	*4.54	1 , , ,
-3	R-Outrigger Only Down	*6.38	*6.38	*4.63	*4.63					*4.54	*4.54	4.04
	F-Dozer + R-Outrigger Down	*6.38	*6.38	*4.63	*4.63					*4.54	*4.54	

Feet Unit: 1,000lb

A(ft)			3		4		5		Max. Reach	
B(ft)	Chassis Frame Attachment	The state of the s	(The state of the s	(-	<u>u</u>	(<u></u>	(A(ft)
	R-Rear Dozer Only Up									
[R-Rear Dozer Only Down									_
20	R-Outrigger Only Down									7
Γ	F-Dozer + R-Outrigger Down									7
	R-Rear Dozer Only Up			*11.76	7.59			*6.30	5.60	
[R-Rear Dozer Only Down			*11.76	10.02			*6.30	*6.30	1
15	R-Outrigger Only Down			*11.76	*11.76			*6.30	*6.30	18.3
	F-Dozer + R-Outrigger Down			*11.76	*11.76			*6.30	*6.30	1
	R-Rear Dozer Only Up	*19.35	13.29	*13.81	7.36	*7.25	4.89	*6.51	4.83	
	R-Rear Dozer Only Down	*19.35	18.66	*13.81	9.78	*7.25	6.41	*6.51	6.33	20.16
10	R-Outrigger Only Down	*19.35	*19.35	*13.81	*13.81	*7.25	*7.25	*6.51	*6.51	
	F-Dozer + R-Outrigger Down	*19.35	*19.35	*13.81	*13.81	*7.25	*7.25	*6.51	*6.51	
	R-Rear Dozer Only Up	*24.32	12.53	14.63	7.10	9.35	4.81	*7.15	4.62	
_ [R-Rear Dozer Only Down	*24.32	17.78	14.63	9.50	9.35	6.32	*7.15	6.07	
5	R-Outrigger Only Down	*24.32	*24.32	15.35	14.74	9.81	9.42	*7.15	*7.15	20.5
	F-Dozer + R-Outrigger Down	*24.32	*24.32	*15.65	15.30	*10.24	9.79	*7.15	*7.15	1
	R-Rear Dozer Only Up	*23.70	12.28	14.43	6.94			*8.46	4.83	
[R-Rear Dozer Only Down	*23.70	17.49	14.43	9.33			*8.46	6.37	1
(Ground)	R-Outrigger Only Down	*23.70	*23.70	15.15	14.54			*8.46	*8.46	19.7
	F-Dozer + R-Outrigger Down	*23.70	*23.70	*16.17	15.10			*8.46	*8.46	1
	R-Rear Dozer Only Up	*21.06	12.33	*14.39	6.94			11.34	5.68	
_ [R-Rear Dozer Only Down	*21.06	17.55	*14.39	9.32			11.34	7.53	1
-5	R-Outrigger Only Down	*21.06	*21.60	*14.39	*14.39			*11.44	11.42	17.51
Ī	F-Dozer + R-Outrigger Down	*21.06	*21.60	*14.39	*14.39			*11.44	*11.44	
	R-Rear Dozer Only Up	*13.55	12.60					*9.89	8.60	
	R-Rear Dozer Only Down	*13.55	*13.55					*9.89	*9.89	1
-10	R-Outrigger Only Down	*13.55	*13.55					*9.89	*9.89	13.06
İ	F-Dozer + R-Outrigger Down	*13.55	*13.55					*9.89	*9.89	

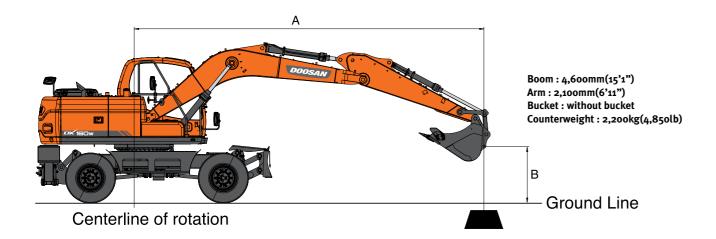
^{1.} Ratings are based on SAE J1097

: Rating Over Front

궠 : Rating Over Side or 360 degree

^{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.

LIFTING CAPACITY



Metric Unit: 1,000kg

A(m)			3		4		5		6		Max. Reach	
B(m)	Chassis Frame Attachment	-th	(ď	[7	(ď	(4	(A(m)
	R-Rear Dozer Only Up			*4.86	4.25	*3.10	3.01			*2.98	*2.98	
, [R-Rear Dozer Only Down			*4.86	*4.86	*3.10	*3.10			*2.98	*2.98	5.02
6	R-Outrigger Only Down			*4.86	*4.86	*3.10	*3.10			*2.98	*2.98	
	F-Dozer + R-Outrigger Down			*4.86	*4.86	*3.10	*3.10			*2.98	*2.98	1
	R-Rear Dozer Only Up			*5.48	4.21	*4.93	3.02			*2.90	2.45	
_ [R-Rear Dozer Only Down			*5.48	*5.48	*4.93	3.97			*2.90	*2.90	1
5	R-Outrigger Only Down			*5.48	*5.48	*4.93	*4.93			*2.90	*2.90	5.74
	F-Dozer + R-Outrigger Down			*5.48	*5.48	*4.93	*4.93			*2.90	*2.90	1
	R-Rear Dozer Only Up	*7.45	6.36	*6.14	4.11	*5.42	2.97	*3.97	2.28	*2.90	2.16	
. [R-Rear Dozer Only Down	*7.45	*7.45	*6.14	5.52	*5.42	3.92	*3.97	2.98	*2.90	2.83	1 ,
4	R-Outrigger Only Down	*7.45	*7.45	*6.14	*6.14	*5.42	*5.42	*3.97	*3.97	*2.90	*2.90	6.20
	F-Dozer + R-Outrigger Down	*7.45	*7.45	*6.14	*6.14	*5.42	*5.42	*3.97	*3.97	*2.90	*2.90	1
	R-Rear Dozer Only Up			*7.03	3.98	5.82	2.91	4.37	2.25	*2.99	2.01	
	R-Rear Dozer Only Down			*7.03	5.37	5.82	3.85	4.37	2.95	*2.99	2.64	1
3	R-Outrigger Only Down				*7.03	*7.03	*5.86	*5.86	4.59	4.41	*2.99	6.49
	F-Dozer + R-Outrigger Down			*7.03	*7.03	*5.86	*5.86	*5.18	4.58	*2.99	*2.99	1
	R-Rear Dozer Only Up			*7.86	3.85	5.74	2.84	4.33	2.21	*3.14	1.94	
	R-Rear Dozer Only Down			*7.86	5.23	5.74	3.78	4.33	2.92	*3.14	2.55	6.60
2	R-Outrigger Only Down			*7.86	*7.86	6.02	5.78	4.55	4.37	*3.14	*3.14	
	F-Dozer + R-Outrigger Down			*7.86	*7.86	*6.30	6.00	*5.37	4.54	*3.14	*3.14	1
	R-Rear Dozer Only Up			8.20	3.75	5.67	2.78	4.29	2.18	*3.39	1.93	
. [R-Rear Dozer Only Down			8.20	5.12	5.67	3.71	4.29	2.88	*3.39	2.55	1
1	R-Outrigger Only Down			*8.33	8.26	5.95	5.71	4.51	4.33	*3.39	*3.39	6.56
	F-Dozer + R-Outrigger Down			*8.33	*8.33	*6.58	5.93	*5.47	4.50	*3.39	*3.39	1
	R-Rear Dozer Only Up	*7.26	5.60	8.14	3.70	5.62	2.74	4.27	2.16	*3.77	2.00	
	R-Rear Dozer Only Down	*7.26	*7.26	8.14	5.07	5.62	3.68	4.27	2.86	*3.77	2.65	1 , , ,
O (Ground)	R-Outrigger Only Down	*7.26	*7.26	*8.34	8.19	5.91	5.67	4.49	*4.31	*3.77	*3.77	6.36
	F-Dozer + R-Outrigger Down	*7.26	*7.26	*8.34	*8.34	*6.61	5.89	*5.38	4.48	*3.77	*3.77	1
	R-Rear Dozer Only Up	*10.06	5.61	*7.90	3.69	5.61	2.73			4.28	2.17	
-1	R-Rear Dozer Only Down	*10.06	8.06	*7.90	5.06	5.61	3.66			4.28	2.87	
-1	R-Outrigger Only Down	*10.06	*10.06	*7.90	*7.90	5.89	5.65			*4.40	4.32	5.99
	F-Dozer + R-Outrigger Down	*10.06	*10.06	*7.90	*7.90	*6.28	5.88			*4.40	*4.40	1
	R-Rear Dozer Only Up	*8.71	5.66	*6.96	3.72	*5.43	2.75			*4.74	2.50	
_	R-Rear Dozer Only Down	*8.71	8.11	*6.96	5.08	*5.43	3.69			*4.74	3.32	5.41
-2	R-Outrigger Only Down	*8.71	*8.71	*6.96	*6.96	*5.43	*5.43			*4.74	*4.74	
Ī	F-Dozer + R-Outrigger Down	*8.71	*8.71	*6.96	*6.96	*5.43	*5.43			*4.74	*4.74	1
	R-Rear Dozer Only Up	*6.62	5.75	*5.21	3.78					*4.28	3.20	
_	R-Rear Dozer Only Down	*6.62	*6.62	*5.21	5.15					*4.28	*4.28	1 ,
-3	R-Outrigger Only Down	*6.62	*6.62	*5.21	*5.21					*4.28	*4.28	4.53
F	F-Dozer + R-Outrigger Down	*6.62	*6.62	*5.21	*5.21					*4.28	*4.28	

Feet Unit: 1,000lb

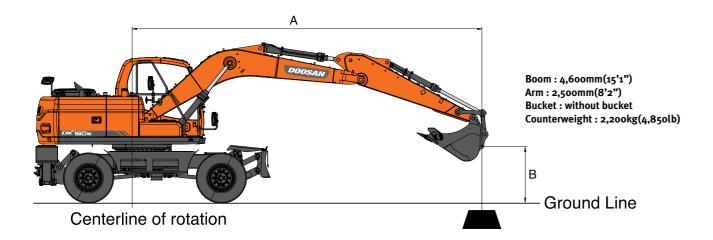
A(ft)			3		4	5	5	Max. Reach		
B(ft)	Chassis Frame Attachment	- Th	(<u>F</u>	(c	4	(4	(A(ft)
	R-Rear Dozer Only Up			*9.14	7.64			*6.61	*6.61	
	R-Rear Dozer Only Down			*9.14	*9.14			*6.61	*6.61	_
20	R-Outrigger Only Down			*9.14	*9.14			*6.61	*6.61	16.2
	F-Dozer + R-Outrigger Down			*9.14	*9.14			*6.61	*6.61	1
İ	R-Rear Dozer Only Up			*11.93	7.55			*6.37	5.08	
[R-Rear Dozer Only Down			*11.93	10			*6.37	*6.37	1
15	R-Outrigger Only Down			*11.93	*11.93			*6.37	*6.37	19.56
	F-Dozer + R-Outrigger Down			*11.93	*11.93			*6.37	*6.37	1
	R-Rear Dozer Only Up			*13.78	7.28	9.41	4.85	*6.57	4.44	
	R-Rear Dozer Only Down			*13.78	9.7	9.41	6.37	*6.57	5.82	1
10	R-Outrigger Only Down			*13.78	*13.78	9.88	9.49	*6.57	*6.57	21.25
Ī	F-Dozer + R-Outrigger Down			*13.78	*13.78	*10.95	9.86	*6.57	*6.57	
	R-Rear Dozer Only Up			14.51	6.98	9.29	4.74	*7.16	4.25	
_ [R-Rear Dozer Only Down			14.51	9.38	9.29	6.25	*7.16	5.59	21.6
5	R-Outrigger Only Down			15.23	14.62	9.75	9.36	*7.16	*7.16	21.0
Ī	F-Dozer + R-Outrigger Down			*15.58	15.18	*11.81	9.73	*7.16	*7.16	1
	R-Rear Dozer Only Up	*16.79	12.05	14.30	6.81	9.20	4.67	*8.32	4.42	$\overline{}$
	R-Rear Dozer Only Down	*16.79	*16.79	14.30	9.19	9.20	6.18	*8.32	5.84	1
(Ground)	R-Outrigger Only Down	*16.79	*16.79	15.01	14.41	9.67	9.28	*8.32	*8.32	20.8
	F-Dozer + R-Outrigger Down	*16.79	*16.79	*16.01	14.97	*11.62	9.65	*8.32	*8.32	1
	R-Rear Dozer Only Up	*20.54	12.12	14.28	6.80			10.14	5.10	
آ ۔	R-Rear Dozer Only Down	*20.54	17.32	14.28	9.18			10.14	6.76	107
-5	R-Outrigger Only Down	*20.54	*20.54	*14.45	14.39			10.65	10.22	18.75
	F-Dozer + R-Outrigger Down	*20.54	*20.54	*14.45	*14.45			*10.66	10.62	
İ	R-Rear Dozer Only Up	*14.17	12.38					*9.34	7.18	
10	R-Rear Dozer Only Down	*14.17	*14.17					*9.34	*9.34	14.69
-10	R-Outrigger Only Down	*14.17	*14.17					*9.34	*9.34	1 14.6
ı	F-Dozer + R-Outrigger Down	*14.17	*14.17					*9.34	*9.34	-

: Rating Over Front

궠 : Rating Over Side or 360 degree

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.

LIFTING CAPACITY



Metric Unit: 1,000kg

A(m)			3		4	5		6		Max. Reach		1
B(m)	Chassis Frame Attachment	-	(-	<u>G</u>	(4	(4	(4	(A(m)
	R-Rear Dozer Only Up					*3.56	3.05			*2.10	*2.10	
_ [R-Rear Dozer Only Down					*3.56	*3.56			*2.10	*2.10	
6	R-Outrigger Only Down					*3.56	*3.56			*2.10	*2.10	5.62
	F-Dozer + R-Outrigger Down					*3.56	*3.56			*2.10	*2.10	1
	R-Rear Dozer Only Up			*4.27	4.25	*4.19	3.04	*3.02	2.30	*2.02	*2.02	
_ [R-Rear Dozer Only Down			*4.27	*4.27	*4.19	4	*3.02	3.01	*2.02	*2.02	6.26
5	R-Outrigger Only Down			*4.27	*4.27	*4.19	*4.19	*3.02	*3.02	*2.02	*2.02	6.26
	F-Dozer + R-Outrigger Down			*4.27	*4.27	*4.19	*4.19	*3.02	*3.02	*2.02	*2.02	1
	R-Rear Dozer Only Up			*5.25	4.15	*4.93	2.99	*4.05	2.28	*2.01	1.93	
. [R-Rear Dozer Only Down			*5.25	*5.25	*4.93	3.94	*4.05	3	*2.01	*2.01	
4	R-Outrigger Only Down			*5.25	*5.25	*4.93	*4.93	*4.05	*4.05	*2.01	*2.01	6.69
	F-Dozer + R-Outrigger Down			*5.25	*5.25	*4.93	*4.93	*4.05	*4.05	*2.01	*2.01	1
	R-Rear Dozer Only Up	*8.55	6.14	*6.59	4.01	*5.57	2.92	4.38	2.25	*2.04	1.81	
_	R-Rear Dozer Only Down	*8.55	*8.55	*6.59	5.41	*5.57	3.86	4.38	2.96	*2.04	*2.04	
3	R-Outrigger Only Down	*8.55	*8.55	*6.59	*6.59	*5.57	*5.57	4.60	4.41	*2.04	*2.04	6.95
	F-Dozer + R-Outrigger Down	*8.55	*8.55	*6.59	*6.59	*5.57	*5.57	*4.92	4.58	*2.04	*2.04	1
	R-Rear Dozer Only Up			*7.52	3.86	5.74	2.84	4.33	2.20	*2.11	1.75	
	R-Rear Dozer Only Down			*7.52	5.25	5.74	3.78	4.33	2.91	*2.11	*2.11	1
2	R-Outrigger Only Down			*7.52	*7.52	6.03	5.79	4.54	4.36	*2.11	*2.11	7.06
	F-Dozer + R-Outrigger Down			*7.52	*7.52	*6.08	6.01	*5.22	4.53	*2.11	*2.11	1
	R-Rear Dozer Only Up			*8.15	3.75	5.66	2.77	4.28	2.16	*2.23	1.75	
	R-Rear Dozer Only Down			*8.15	5.12	5.66	3.70	4.28	2.87	*2.23	*2.23	1
1	R-Outrigger Only Down			*8.15	*8.15	5.94	5.70	4.50	4.32	*2.23	*2.23	7.02
	F-Dozer + R-Outrigger Down			*8.15	*8.15	*6.45	5.93	*5.40	4.49	*2.23	*2.23	1
	R-Rear Dozer Only Up	*6.95	5.56	8.11	3.68	5.60	2.72	4.25	2.14	*2.42	1.80	
	R-Rear Dozer Only Down	*6.95	*6.95	8.11	5.04	5.60	3.65	4.25	2.84	*2.42	2.38	6.84
O (Ground)	R-Outrigger Only Down	*6.95	*6.95	*8.35	8.17	5.88	5.65	4.47	4.28	*2.42	*2.42	0.04
	F-Dozer + R-Outrigger Down	*6.95	*6.95	*8.35	*8.35	*6.60	5.87	*5.42	4.45	*2.42	*2.42	1
	R-Rear Dozer Only Up	*9.04	5.55	8.08	3.65	5.58	2.70	4.24	2.13	*2.71	1.93	
-1	R-Rear Dozer Only Down	*9.04	7.99	8.08	5.02	5.58	3.63	4.24	2.83	*2.71	2.55	6.50
-1	R-Outrigger Only Down	*9.04	*9.04	*8.09	*8.09	5.86	5.62	4.46	4.27	*2.71	*2.71	0.50
	F-Dozer + R-Outrigger Down	*9.04	*9.04	*8.09	*8.09	*6.42	5.84	*5.17	4.44	*2.71	*2.71	1
	R-Rear Dozer Only Up	*9.41	5.58	*7.37	3.66	5.59	2.71			*3.19	2.17	
-2	R-Rear Dozer Only Down	*9.41	8.03	*7.37	5.03	5.59	3.64			*3.19	2.88	- 06
-2	R-Outrigger Only Down	*9.41	*9.41	*7.37	*7.37	*5.83	5.63			*3.19	*3.19	5.96
Ī	F-Dozer + R-Outrigger Down	*9.41	*9.41	*7.37	*7.37	*5.83	*5.83			*3.19	*3.19	1
	R-Rear Dozer Only Up	*7.62	5.66	*6.01	3.71	*4.43	2.76			*4.03	2.64	
-3	R-Rear Dozer Only Down	*7.62	*7.62	*6.01	5.08	*4.43	3.69			*4.03	3.52	T 18
-3	R-Outrigger Only Down	*7.62	*7.62	*6.01	*6.01	*4.43	*4.43			*4.03	*4.03	5.18
	F-Dozer + R-Outrigger Down	*7.62	*7.62	*6.01	*6.01	*4.43	*4.43			*4.03	*4.03	

Feet Unit: 1,000lb

A(ft)			3		4	!	5	Max. Reach		
B(ft)	Chassis Frame Attachment	<u>F</u>	(T	(c	<u>-</u>	(-	(A(ft)
Ì	R-Rear Dozer Only Up			*8.43	7.72			*4.65	*4.65	
[R-Rear Dozer Only Down			*8.43	*8.43			*4.65	*4.65	
20	R-Outrigger Only Down			*8.43	*8.43			*4.65	*4.65	18.18
Ī	F-Dozer + R-Outrigger Down			*8.43	*8.43			*4.65	*4.65	1
	R-Rear Dozer Only Up			*10.04	7.61	*7.36	4.94	*4.44	*4.44	
[R-Rear Dozer Only Down			*10.04	*10.04	*7.36	6.47	*4.44	*4.44	1
15	R-Outrigger Only Down			*10.04	*10.04	*7.36	*7.36	*4.44	*4.44	21.22
Ī	F-Dozer + R-Outrigger Down			*10.04	*10.04	*7.36	*7.36	*4.44	*4.44	1
	R-Rear Dozer Only Up	*18.35	13.25	*13.03	7.31	9.42	4.85	*4.50	3.99	
[R-Rear Dozer Only Down	*18.35	*18.35	*13.03	9.74	9.42	6.37	*4.50	*4.50	1
10	R-Outrigger Only Down	*18.35	*18.35	*13.03	*13.03	9.89	9.5	*4.50	*4.50	22.78
Ī	F-Dozer + R-Outrigger Down	*18.35	*18.35	*13.03	*13.03	*10.39	9.87	*4.50	*4.50	1
	R-Rear Dozer Only Up			14.53	6.98	9.27	4.71	*4.77	3.84	
_ [R-Rear Dozer Only Down			14.53	9.38	9.27	6.23	*4.77	*4.77	1
5	R-Outrigger Only Down			*15.10	14.63	9.73	9.34	*4.77	*4.77	23.17
Ī	F-Dozer + R-Outrigger Down			*15.10	*15.10	*11.56	9.71	*4.77	*4.77	1
	R-Rear Dozer Only Up	*16.06	11.96	14.25	6.76	9.15	4.61	*5.34	3.97	
	R-Rear Dozer Only Down	*16.06	*16.06	14.25	9.14	9.15	6.13	*5.34	5.25	1
O (Ground)	R-Outrigger Only Down	*16.06	*16.06	14.97	14.36	9.62	9.23	*5.34	*5.34	22.44
İ	F-Dozer + R-Outrigger Down	*16.06	*16.06	*15.98	14.93	*11.74	9.60	*5.34	*5.34	1
	R-Rear Dozer Only Up	*21.81	11.96	14.19	6.71	9.15	4.61	*6.46	4.48	
_ 1	R-Rear Dozer Only Down	*21.81	17.16	14.19	9.09	9.15	6.12	*6.46	5.94	0
-5	R-Outrigger Only Down	*21.81	*21.81	14.90	14.29	9.62	9.22	*6.46	*6.46	20.48
Ī	F-Dozer + R-Outrigger Down	*21.81	*21.81	*15.00	14.86	*9.81	9.59	*6.46	*6.46	1
	R-Rear Dozer Only Up	*16.38	12.18	*11.15	6.83			*8.84	5.89	
1	R-Rear Dozer Only Down	*16.38	*16.38	*11.15	9.22			*8.84	7.87	16.05
-10	R-Outrigger Only Down	*16.38	*16.38	*11.15	*11.15			*8.84	*8.84	- 16.85 -
İ	F-Dozer + R-Outrigger Down	*16.38	*16.38	*11.15	*11.15			*8.84	*8.84	

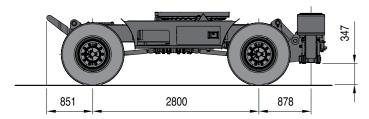
: Rating Over Front

궠 : Rating Over Side or 360 degree

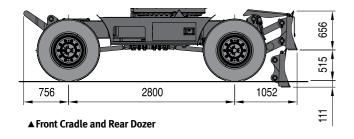
Ratings are based on SAE J1097
 Load point is the end of arm.
 * Rated loads are based on hydraulic capacity.
 Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping capacity.

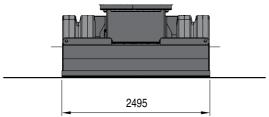
UNDERCARRIAGE

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

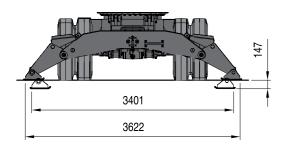


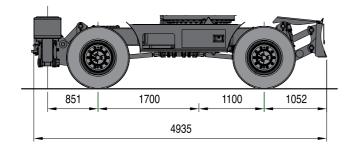
▲ Front Cradle and Rear outrigger



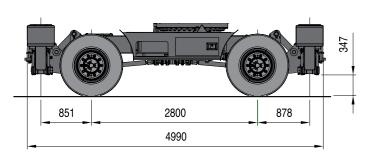


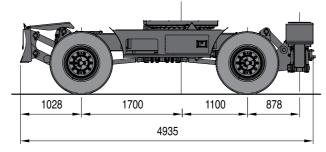
Undercarriage with front outrigger and rear dozer





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





▲ Front Outrigger and Rear Outrigger

▲ Front Dozer and Rear Outrigger

STANDARD AND OPTIONAL EQUIPMENT

STANDARD EQUIPMENT Boom & Arm Safety • 4.6m Boom • Large handrails and step • 2.5m Arm • Punched metal anti-slip plates Hydraulic system • Hydraulic safety lock lever • Boom and arm flow regeneration Safety glass • Boom and arm holding valves • Hammer for emergency escape Swing anti-rebound valves • Right and left rearview mirrors • Spare ports(valve) • Reverse travel alarm • One-touch power boost • Emergency engine stop • LED stop lamps **Cabin & Interior** Others • Viscous cab mounts • All weather sound suppressed type cab • Double element air cleanerr • Dust screen for radiator/oil cooler/Charged Air Cooler • Adjustable suspension seat with head rest and adjustable arm rest • Engine overheat prevention system • Pull-up type front window and removable lower front window • Engine restart prevention system • Room light • Self-diagnostic system • Intermittent windshield wiper Alternator(24V, 60 amps) • Cigarette lighter and ashtray • Electric horn • Cup holder • Halogen working lights(frame mounted 2, boom mounted 2) • Hot & Cool box Double fuel filter • LCD color monitor panel • 2.5ton Cast Counterweight • Engine speed (RPM) control dial Undercarriage • AM/FM radio and cassette player • Remote radio ON/OFF switch • 9.00-20 14PR double tires • 12V spare powers socket Heavy duty axles • Parallel dozer blade • Serial communication port for laptop PC interface • Joystick lever with 3 switches Tool box • 4 Speed(creep, low, econo, high) Sunvisor • Sun roof • Front axle oscillation cyl. auto Lock Wiper **OPTIONAL EQUIPMENT**

Some of there optional equipment may be standard in some markets. Some of these optional equipment 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.

Boom & Arm	Others
• 4.3m Boom	Piping for crusher
• 2.1m Arm	Piping for quick clamp
	 Piping for front attachment rotation
Safety	• Lower wiper
 Boom and arm hose rupture protection valve 	• Fuel heater
Overload warning device	 Large capacity alternator (24v, 80 amps)
 Cabin Top/Front guard(ISO 10262, FOGS standard) 	• Fuel filler pump
Rotation beacon	
Mirror & Lamp on counterweight	Undercarriage
	• Front Cradle
Cabin & Interior	• Dozer blade
• Air suspension seat	 Outriggers
• 2 Front lamps	 Individually controlled outriggers
• 4 front + 2 rear lamps	• 10.00-20 16 PR double tires
• Rain shield	• 18-19.5 20 PR single tire
	• 10.00-20 14 PR double tires

• 2.2 ton cast counterweight 1.8 ton cast counterweight