

DOOSAN

Construction Equipment

DX75-7B

Engine Power	53HP @ 2,200 rpm
Operational Weight	7,420 kg
Bucket Capacity (SAE)	0.3 m ³



DOOSAN DX75-7B HYDRAULIC EXCAVATOR :
A NEW MODEL WITH ADVANCED FEATURES

DX75-7B

The key phrase during the development of the DX75-7B was “giving optimum value to the end users.” This translates, in concrete terms, into : Increased production and improved fuel economy thanks to electronic optimization of the hydraulic system and the improved Yanmar Engine(Yanmar 4TNV98-EXS). Improved ergonomics, increased comfort and excellent all around visibility ensure a safe and pleasant working environment.

Improved reliability through the use of high performance materials combined with new methods of structural stress analysis have led to increased component life expectancy, thus reducing running costs. Reduced maintenance increases the availability of the excavator and reduces running costs.



WIDELY RECOGNIZED BY THE MARKET FOR ITS HIGHEST PERFORMANCE, FLEXIBLE AND STABLE OPERATION, AND LONGER SERVICE LIFE OF PARTS.



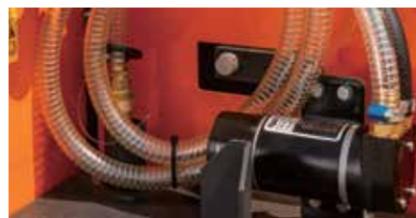
RIGID FRONT
One-piece-type casting and increased thickness for greater durability.



NEWLY DESIGNED WORK LIGHT
Higher brightness and wider lighting area improve support for night-time work.



LARGER CABIN
Larger cabin, same size as middle-large excavator models. Sufficient operating space, low noise level, and wider field of view.



ELECTRIC FUEL FILLER PUMP (OPTIONAL)
Easily refuel anywhere and anytime.



HIGH-EFFICIENCY HYDRAULIC SYSTEM
Engine energy efficiency maximized with the enhanced hydraulic system.



ENGINE
Electric controller mechanical engine produces outstanding power and is highly durable, which results in excellent operation in high-load operations. In addition, it features low noise and low emissions, making it suitable for operation in noise sensitive areas and at night.



EASY MAINTENANCE
Modular design for convenient and easy onsite maintenance work.



REINFORCED TRACK FRAME
Improved design has enhanced the durability and stability of the mechanism.

* it may contain photographs of machines with specifications that differ from those of machines sold in your area.



ENHANCED FRONT AND SIDE LIFTING CAPACITY



1 DOZER BLADE (OPTIONAL)

The dozer shovel is useful for leveling and clean-up work and for stabilizing the machine during digging applications.

2 SWING DEVICE

Shocks during rotation are minimized, while the increased torque option ensures rapid cycles.

3 HIGHER GRADEABILITY AND WORK CAPABILITY

Thanks to the strong traction force combined with the highest swing torque in its class, the DX75-7B delivers superior capability when working on a slope.

4 POWERFUL TRAVEL TRACTION

Powerful travel traction for undisturbed operation on slopes and wet ground.

STABLE DURABILITY PROVED IN DIVERSE WORK ENVIRONMENTS

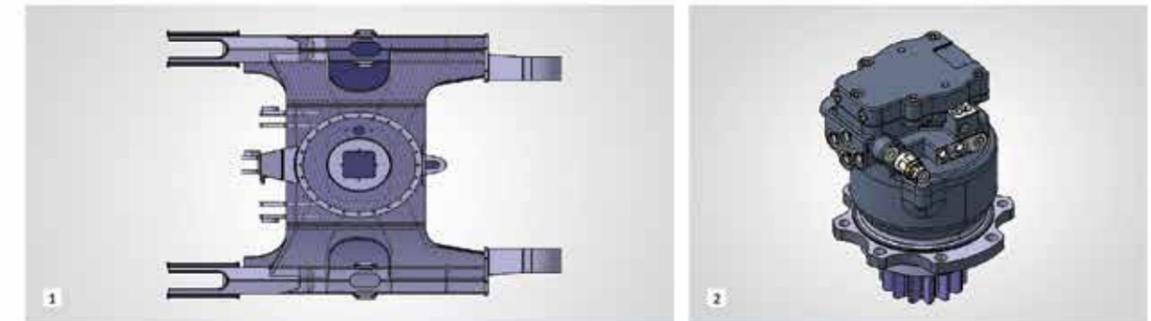
User demand for smaller-capacity equipment has been satisfied with enhanced front attachments, further reinforced upper structure, and high-durability frame and parts that have been proven at many worksites over a long period of time.



REINFORCED BOOM AND ARM



The boom lower plate is designed as an integral type to reduce weld joints and stress concentration. The thicknesses of the side and upper plates of the arm have been increased for further reinforcement.



1 OPTIMIZED TRACK FRAME STRUCTURE

The new track frame structure distributes stress concentration to improve parts durability and work stability.

2 IMPROVED SWING DEVICE

The performance of the swivel motor has been further improved, including stable rotation, precise braking, and excellent shock absorption.

3 LOWER STRUCTURE

The newly designed, one-piece type cast idler strengthens joints by reducing assembly steps. The low roller has been changed to the center-fixed type to enhance the stability of the lower structure and the strength of the track frame.

FITTED WITH THE INDUSTRY-PROVEN YANMAR ELECTRONIC PUMP ENGINE

Oil separator and filter to improve the fuel discharge and durability of the engine. The compatibility of the hydraulic and drive systems has increased the oil discharge rate with reduced flow loss.



ENGINE SPECIFICATIONS

Power	39 kW (52.3 HP) 2,200 rpm
No. of Cylinders	4
Displacement	3,319 cc



1 FUEL PRE FILTER

Removes over 99% of harmful foreign substances, extends the service life of engine parts with improved lubrication performance.

2 AIR PRE FILTER

Reducing the risk of engine contamination and filtering efficiency increased

Larger cabin, same size as middle-large excavator models. Sufficient operating space, low noise level, and wider field of view. Noise and vibration in the cabin have been minimized, while the air conditioning system ensures an optimized work environment. A safe and pleasant environment is a precondition for enhanced work efficiency.



WIDER FIELD OF VIEW

The wide cabin window provides a wider field of view for greater work efficiency and safety.

ADJUSTABLE SEAT

The driver's seat can be adjusted by height and tilted to fit for the operator's position, thereby reducing fatigue and improving work efficiency.

ANALOG DASHBOARD



The intuitively designed dashboard clearly displays information on the status of the equipment.

AIR CONDITIONING



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



1 UPGRADED CONTROL PANEL WITH CENTRALIZED SWITCHES

The metallic interior panels are similar to those of luxury cars. The switches are clustered for more convenient and efficient operation.

1 EMERGENCY ENGINE STOP BUTTON

The emergency stop button can cut off fuel feed to stop the engine in the event of an emergency without having to use the start key.

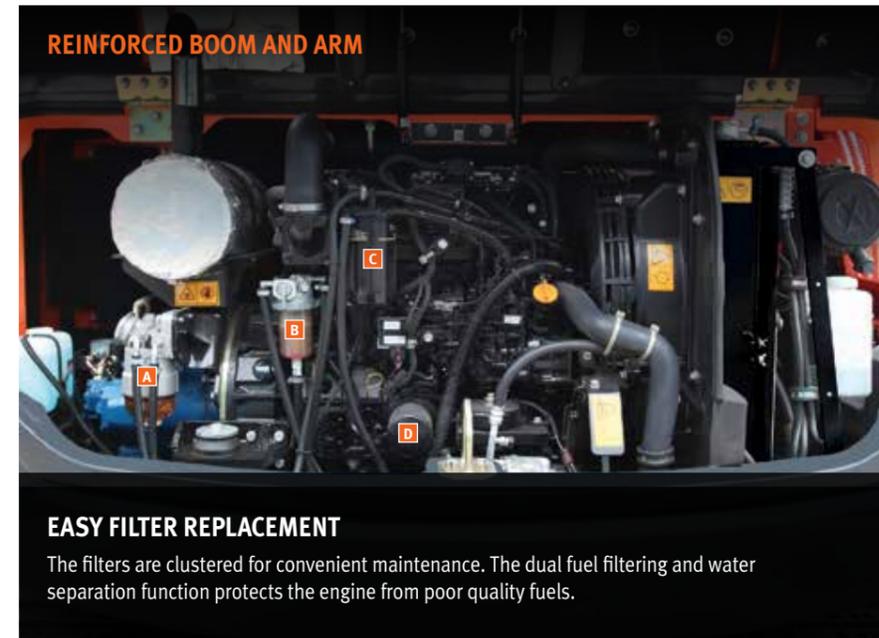


NEW WORK LIGHT

Upgraded brightness provides more lighting for nighttime works.

CONVENIENT, FAST, ECONOMICAL MAINTENANCE

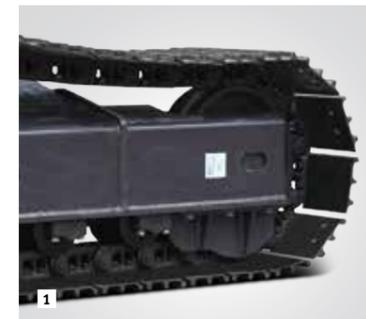
Upgraded maintenance features provide customers with even greater convenience.



REINFORCED BOOM AND ARM

EASY FILTER REPLACEMENT

The filters are clustered for convenient maintenance. The dual fuel filtering and water separation function protects the engine from poor quality fuels.



1 DETACHABLE TRACK GUARD

The track guards are bolted to the frame for easier maintenance of the track.

2 BATTERY COVER

The reinforced battery cover is resistant to fracture and can store a grease gun and a tool box.

3 GAS SPRING CYLINDER

The new gas spring enables easier opening and closing of the engine cover, including full opening for engine maintenance.

4 FUEL COOLER AND RADIATOR

The independent type fuel chiller and radiator facilitates installation and replacement, reducing maintenance time.

5 FAST ENGINE OIL DRAIN

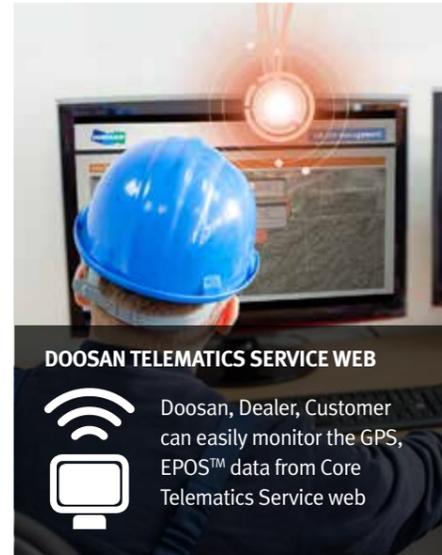
Engine oil can be drained quickly without spillage to prevent environmental pollution.

6 LOW NOISE / VIBRATION TECHNOLOGY

Reduces vibration and noise, extending the lifespan of hydraulic units and parts.

TELECOMMUNICATIONS

Data flow from machine to web



BENEFITS



FUNCTIONS

Location

- GPS
- Geo-fence



Reports

- Periodic operation report
- Utilization



Operation Trend

- Total operation hour
- Operation hour by mode



Fuel Efficiency*

- Fuel level
- Fuel consumption



Filter & Oil Management

- Preventive maintenance by item replacement cycle



Warning & Alert

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



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

TELEMATICS SERVICE BENEFITS

Customer

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

Dealer

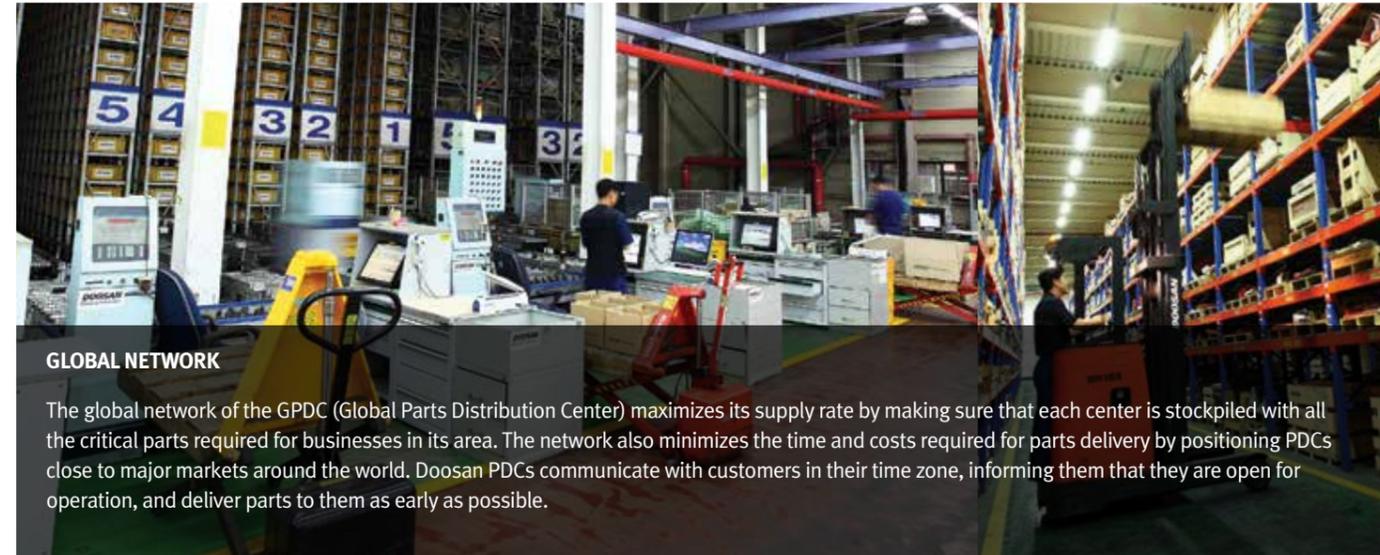
- Better service for customers
- Provide better quality of service
- Maintain machine value
- Better understanding of market needs

Doosan

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

GLOBAL PDC (PARTS DISTRIBUTION CENTER) NETWORK

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



The Global Parts Distribution Center Network

PDCs had been set up as shown below, including Mother PDC in Ansan, Korea. The nine other PDCs include one in China (Yantai), three in the USA (Chicago, Atlanta, Miami), one in Brazil (Americana), two in Europe (U.K. and Germany), one in the middle East (Dubai) and one in Asia (Singapore)

(As of April, 2019)



PDC BENEFIT



TECHNICAL SPECIFICATIONS

ENGINE

Model	YANMAR \ 4TNV98-EXS
Number of cylinders	4
Nominal flywheel power	53 HP @ 2,200 rpm
Max. torque	19.1~20.8 kgf.m / 1,650 rpm
Piston displacement	3,319 cc
Bore & stroke	98 x 110 mm
Starter	12 V x 3.5 kW
Batteries	2 x 12 V / 100 Ah

WEIGHT

Boom : 3,620 mm Arm : 1,670 mm Bucket : SAE 0.3 m³

	Shoe width	Operating weight	Ground pressure (kgf/cm ²)
Triple Grouser	450 mm	7,500 kg (with dozer)	0.36 kgf/cm ²

HYDRAULIC SYSTEM

Main pumps	1 variable displacement axial piston pumps 158.4 liter/min at 2,200 rpm
Pilot pump	Gear pump 11.0 liter/min at 2,200 rpm
Maximum system pressure	Boom / Arm / Bucket : 250 kg/cm ² (245 bar) Travel : 250 kg/cm ² (245 bar) Swing : 220 kg/cm ² (216 bar)

HYDRAULIC CYLINDERS

Cylinders	Quantity	Bore x Rod diameter x stroke
Boom	1	110 x 65 x 865 mm
Arm	1	100 x 65 x 813 mm
Bucket	1	85 x 55 x 680 mm

SWING MECHANISM

Swing speed : 0 to 10.4 rpm

UNDERCARRIAGE

Number of rollers and track shoes per side	Upper rollers : 1 EA Lower rollers : 5 EA Shoes : 38 EA Tumbler Distance : 2,110 mm
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DRIVE

Travel speed (fast/slow)	4.6 / 2.9 km/h
Maximum traction force	3,500 / 5,800 Kgf
Maximum grade	30° / 58 %

WEIGHT

	Capacity (m ³)		BUCKET WIDTH (mm)	
	SAE	W/CUTTER	W/CUTTER	W/O CUTTER
STD. BUCKET	0.3	859.5	787	

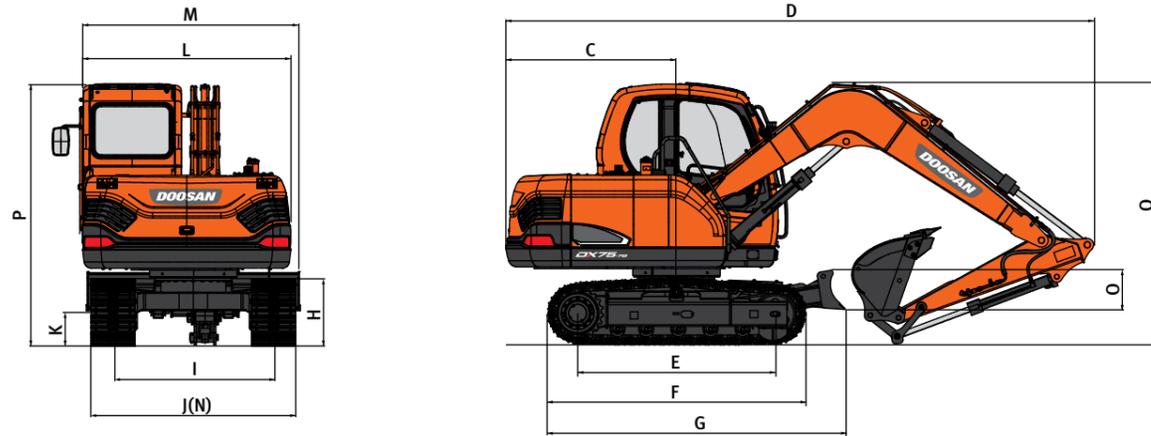
ENVIRONMENT

Sound level guarantee	99 dB
Cab sound level	74 dB

REFILL CAPACITIES

Fuel tank	130l
Cooling system (Radiator capacity)	10l
Engine oil	11.6l
Swing drive	1.5l
Final drive (each)	1.3l
Hydraulic tank	90l

DIMENSIONS



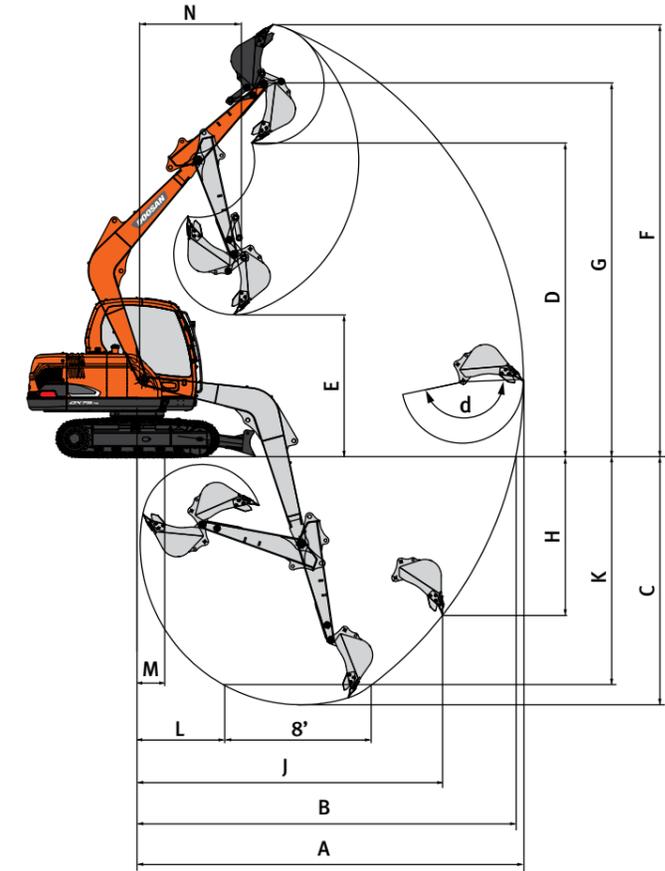
WEIGHT

BOOM TYPE (ONE PIECE)	(mm)	3,620
ARM TYPE	(mm)	1,670
BUCKET TYPE (SAE)	(m³)	0.3
C TAIL SWING RADIUS	(mm)	1,750
D SHIPPING LENGTH	(mm)	6,030
E TUMBLER DISTANCE	(mm)	2,110
F TRACK LENGTH	(mm)	2,750
G TRACK LENGTH(DOZER)	(mm)	3,210
H TRACK HEIGHT	(mm)	695
I TRACK GAUGE	(mm)	1,650
J TRACK WIDTH	(mm)	2,100
K CAR BODY CLEARANCE	(mm)	370
L BODY WIDTH	(mm)	2,130
M SHIPPING WIDTH	(mm)	2,180
N DOZER WIDTH	(mm)	2,100
O DOZER HEIGHT	(mm)	418
P SHIPPING HEIGHT	(mm)	2,680
Q SHIPPING HEIGHT(BOOM)	(mm)	2,610

DIGGING FORCE (ISO)

Bucket (SAE)	0.3 m³	Arm	1,670 mm
	5,340 kgf		3,690 kgf
Digging force	52.36 kN	Digging force	36.19 kN
	11,772.7 lbf		8,135 lbf

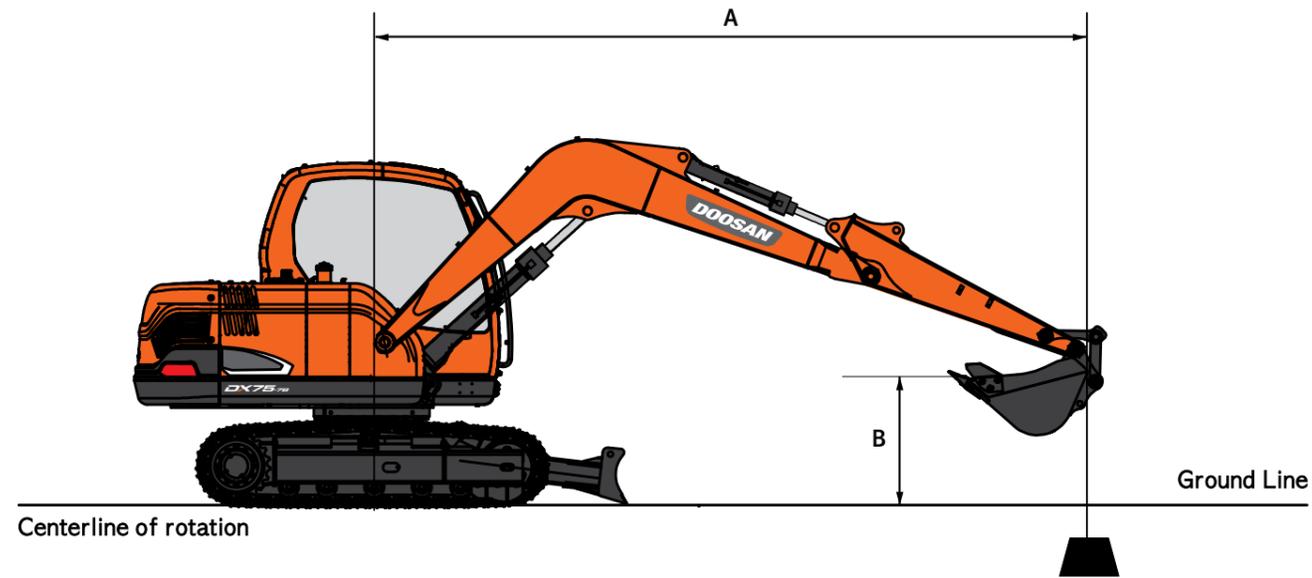
WORKING RANGES



WORKING RANGE

BOOM TYPE (ONE PIECE)	(mm)	3,620
ARM TYPE	(mm)	1,670
BUCKET TYPE (SAE)	(m³)	0.3
A MAX. DIGGING REACH	(mm)	6,270
B MAX. DIGGING REACH (Gradeability)	(mm)	6,115
C MAX. DIGGING DEPTH	(mm)	4,080
D MAX. LOADING HEIGHT	(mm)	5,170
E MIN. LOADING HEIGHT	(mm)	2,345
F MAX. DIGGING HEIGHT	(mm)	7,100
G MAX. BUCKET PIN HEIGHT	(mm)	6,150
H MAX. VERTICAL WALL DEPTH	(mm)	2,670
J MAX. RADIUS VERTICAL	(mm)	4,750
K MAX. DEPTH TO 8' LINE	(mm)	3,725
L MIN. RADIUS 8' LINE	(mm)	1,120
M MIN. DIGGING REACH	(mm)	560
N MIN. SWING RADIUS	(mm)	1,745
d BUCKET ANGLE	(mm)	165

LIFTING CAPACITY



WEIGHT

TRACK WIDTH : 2.1 m (7' 2") STD TRACK BOOM : 3.620 m (11'9") ARM : 1.670 m (5' 6") BUCKET : SAE 0.3 m³ HEAPED SHOE : 450 mm (17.7")

B(m)	A(m)								Max. Reach		A(m)
	2	3	4	5	2	3	4	5	Front	Side	
5			1.26 *	1.26 *					1.20 *	1.20 *	3.78
4			1.36 *	1.36 *	1.30 *	1.30 *			1.09 *	1.09 *	4.56
3	2.44 *	2.44 *	1.73 *	1.73 *	1.44 *	1.44 *			1.08 *	0.97	5.02
2			2.24 *	2.24 *	1.66	1.43			1.01	0.87	5.25
1			2.55	2.14	1.59	1.36	1.13	0.97	0.99	0.84	5.28
0			2.47	2.06	1.55	1.32	1.12	0.96	1.03	0.88	5.11
-1	3.95 *	3.95 *	2.45	2.05	1.53	1.30	1.09	0.93	1.17	1.00	4.72
-2	3.37 *	3.37 *	2.35 *	2.07	1.55	1.32	1.07	0.91	1.52	1.30	4.04
-3									1.44 *	1.44 *	2.89

- LOAD POINT IS THE END OF THE ARM.
- CAPACITIES MARKED WITH AN ASTERISK (*) ARE LIMITED BY HYDRAULIC CAPACITIES.
- LIFT CAPACITIES SHOWN DO NOT EXCEED 75 % OF MINIMUM TIPPING LOADS OR 87 % OF HYDRAULIC CAPACITIES.
- THE LEAST STABLE POSITION IS OVER THE SIDE.
- THE TOTAL MASS OF MACHINE IS 7200 kg INCLUDED IN THIS MASS BOOM 3.62 m, ARM 1.67 m, 632 kg COUNTERWEIGHT, BUCKET WEIGHT 0 kg, ALL OPERATING FLUIDS AND A 75 kg OPERATOR.
- LIFT CAPACITIES ARE IN COMPLIANCE WITH ISO 10567.

: RATING OVER FRONT
 : RATING OVER SIDE OR 360 degree

WITHOUT DOZER

TRACK WIDTH : 2.1 m (7' 2") STD TRACK BOOM : 3.620 m (11'9") ARM : 1.670 m (5' 6") BUCKET : SAE 0.3 m³ HEAPED SHOE : 450 mm (17.7")

B(m)	A(m)								Max. Reach		A(m)		
	1	2	3	4	5	Front	Side	Front	Side				
5					1.26 *	1.26 *					1.20 *	1.20 *	3.78
4					1.36 *	1.36 *	1.30 *	1.30 *			1.09 *	1.09 *	4.56
3			2.44 *	2.44 *	11.73 *	1.73 *	1.44 *	1.44 *	1.13	0.97	1.08 *	0.97	5.02
2					2.24 *	2.24 *	1.66	1.43	1.12	0.96	1.01	0.87	5.25
1					2.55	2.14	1.59	1.36	1.09	0.93	0.99	0.84	5.28
0					2.47	2.06	1.55	1.32	1.07	0.91	1.03	0.88	5.11
-1	3.10 *	3.10 *	3.95 *	3.95 *	2.45	2.05	1.53	1.30			1.17	1.00	4.72
-2	5.03 *	5.03 *	3.37 *	3.37 *	2.35 *	2.07	1.55	1.32			1.52	1.3	4.04
-3											1.44 *	1.44 *	2.89

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- LIFT CAPACITIES SHOWN DO NOT EXCEED 75 % OF MINIMUM TIPPING LOADS OR 87 % OF HYDRAULIC CAPACITIES.
- THE LEAST STABLE POSITION IS OVER THE SIDE.
- THE TOTAL MASS OF MACHINE IS 7200 kg INCLUDED IN THIS MASS BOOM 3.62 m, ARM 1.67 m, 631.2 kg COUNTERWEIGHT, BUCKET WEIGHT 273 kg, ALL OPERATING FLUIDS AND A 75 kg OPERATOR.
- LIFT CAPACITIES ARE IN COMPLIANCE WITH ISO 10567.

: RATING OVER FRONT
 : RATING OVER SIDE OR 360 degree



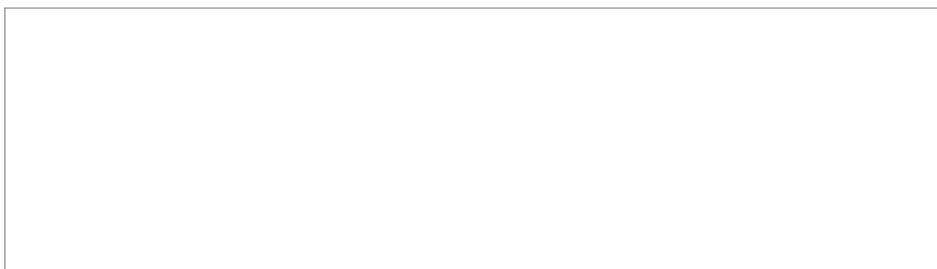
Doosan is

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, Czech, 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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