

DX75-5B

	Engine Power	39 kW (52.3 HP) 2,200 rpr
	Operational Weight	6,980 ~ 7,420 k
	Bucket Capacity (SAE)	0.3 m
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DOOSAN DX75-5B HYDRAULIC EXCAVATOR:

A NEW MODEL WITH ADVANCED FEATURES

DX 75-58

The key phrase during the development of the DX75-5B 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 allround 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.

Comparison with Preceding Models

1 Increase in productivity

2 Increase in fuel efficiency

3 Faster travel speed

12 12 4 %

DY75

* The above data are based on the manufacturer's standard testing conditions, and thus may vary slightly depending on each conditions.



"VERSATILE MINI" DX75-5B

Widely recognized by the market for its highest performance, flexible and stable operation, and longer service life of parts.



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.



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





EASY MAINTENANCE

Modular design for convenient and easy onsite maintenance work.



FULL-AUTOMATIC FUEL HEATING

Automatic fuel heating to prevent fuel freezing in an intense cold weather.



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.



PERFORMANCE & PRODUCTIVITY





ENHANCED FRONT AND SIDE LIFTING CAPACITY











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.

II HIGHER GRADEABILITY AND WORK CAPABILITY

Thanks to the strong traction force combined with the highest swing torque in its class, the DX75-5B delievers superior capability when working on a slope.

POWERFULTRAVELTRACTION

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

DURABILITY & RELIABILITY

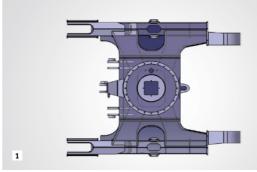




REINFORCED BOOM AND ARM

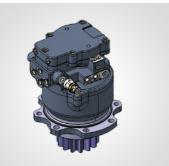
The boom lower plate is designed as an integral type to reduce weld joints and stress concentration. The thicknesses of the side and upper plates of the arm have been increased for further reinforcement.













OPTIMIZED TRACK FRAME STRUCTURE

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

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.

INTEGRATED ENERGY ACCUMULATOR AND SOLENOID VALVE

The number of pipe joints has been reduced for more reliability.

IMPROVED SWING DEVICE

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

MAIN HYDRAULIC HOSE

Pipes have been replaced with hoses to reduce the risk of leakage.

\$ FUEL EFFICIENCY

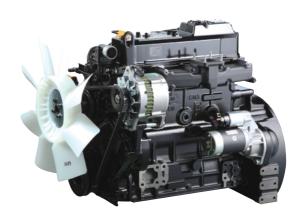




ENGINE SPECIFICATIONS

Power 39 kW (52.3 HP) 2,200 rpm

No. of Cylinders 4
Displacement 3,319 cc









11 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

OPERATOR COMFORT





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.



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.

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.











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.











DETACHABLE TRACK GUARD

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

BATTERY COVER

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

B GAS SPRING CYLINDER

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

■ FUEL COOLER AND RADIATOR

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

FAST ENGINE OIL DRAIN

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

IDENTIFY AND LOSS / VIBRATION TECHNOLOGY

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

TECHNICAL SPECIFICATIONS

ENGINE

Model YANMAR \ 4TNV98-EXS **Number of cylinders** Nominal flywheel power Gross 39 KW (53 PS) @ 2,200 rpm Net 36.5 KW (49.6 PS) @ 2,200 rpm Max. torque 19.1~20.8 kgf.m / 1,650 rpm Piston displacement 3,319 cc Bore & stroke Ф98 x 110 mm Starter 12 V x 3.5 kW **Batteries** 2 x 12 V / 100 Ah

HYDRAULIC SYSTEM

Main pumps

1 variable displacement axial piston pumps 2 X 70.4 liter/min

Pilot pump

Gear pump - max flow: 19.6 liter/min at 2,200 rpm

Maximum system pressure

Boom / Arm / Bucket : 250 kg/cm² (245 bar)

Travel: 250 kg/cm² (245 bar) Swing: 220 kg/cm² (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

WEIGHT

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

	Shoe width	Operating weight	Ground pressure (kgf/cm²)
Triple Grouser	450 mm	7,420 kg (with dozer)	0.36 kgf/cm ²

UNDERCARRIAGE ENVIRONMENT

Number of rollers and track shoes per sideSound level guaranteeUpper rollers: 1 EA99 dB

Upper rollers : 1 EA Lower rollers : 5 EA Shoes : 38 EA

Tumbler Distance: 2,110 mm

REFILL CAPACITIES

Cab sound level

74 dB

Fuel tank

130 ℓ

Travel speed (fast/slow)

4.6 / 2.9 km/h

DRIVE

Maximum traction force

3,500 / 5,800 Kgf

Maximum grade

30° / 58 %

10 ℓ Engine oil

Cooling system (Radiator capacity)

11.6 0

Swing drive

1.5 ℓ

Final drive (each)

1.3 ℓ

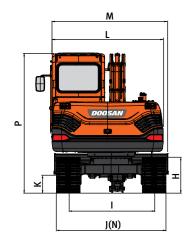
Hydraulic tank

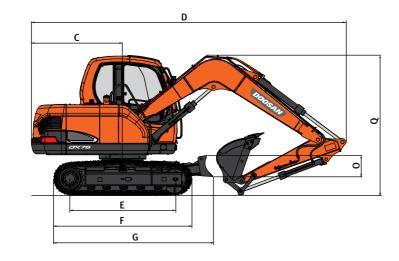
90 Q

BUCKET

	CAPACITY (m³)	BUCKET WI	DTH (mm)
	SAE	### BUCKET WIDTH (mm) W/CUTTER	W/O CUTTER
STD. BUCKET	0.3	859.5	787

DIMENSIONS





DIMENSIONS

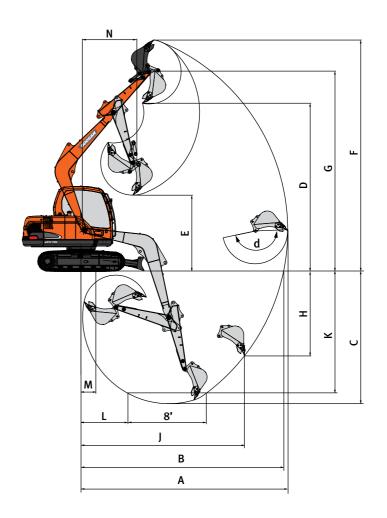
BOOM	TYPE (ONE PIECE)	(mm)	3,620
ARM T	YPE	(mm)	1,670
BUCKI	ET TYPE (SAE)	(m³)	0.3
С	TAIL SWING RADIUS	(mm)	1,750
D	SHIPPING LENGTH	(mm)	6,030
E	TUMBLER DISTANCE	(mm)	2,110
F	TRACK LENGTH	(mm)	2,750
G	TRACK LENGTH(DOZER)	(mm)	3,210
Н	TRACK HEIGHT	(mm)	695
ı	TRACK GAUGE	(mm)	1,650
J	TRACK WIDTH	(mm)	2,100
K	CAR BODY CLEARANCE	(mm)	370
L	BODY WIDTH	(mm)	2,130
M	SHIPPING WIDTH	(mm)	2,180
N	DOZER WIDTH	(mm)	2,100
0	DOZER HEIGHT	(mm)	418
Р	SHIPPING HEIGTH	(mm)	2,680
Q	SHIPPING HEIGTH(BOOM)	(mm)	2,610

DIGGING FORCE (ISO)

Bucket (SAE)	0.3 m³
Digging force	5,340 kgf
Digging force	52.36 kN
	11,772.7 lbf

Arm	1,670 mm
Digging force	3 , 690 kgf
	36.19 kN
	8,135 lbf

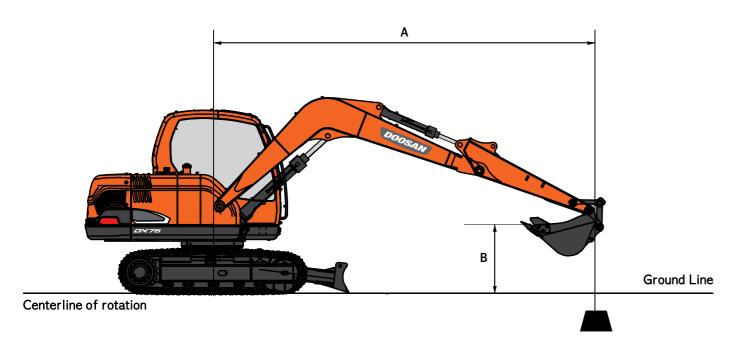
WORKING RANGES



WORKING RANGE

BOOM	TYPE (ONE PIECE)	(mm)	3,620
ARM TYPE		(mm)	1,670
BUCKET TYPE (SAE)		(m³)	0.3
Α	MAX. DIGGING REACH	(mm)	6,270
В	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
Н	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
М	MIN. DIGGING REACH	(mm)	560
N	MIN. SWING RADIUS	(mm)	1,745
d	BUCKET ANGLE	(deg)	165

LIFTING CAPACITY



WITH 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") Unit: 1,000 kg

A(m)	2	3	4	5	2	3	4	5	M	lax. Reac	h
B(m)	<u>T</u>	(U	(L in	T-	C	T	(F	(#	A(m)
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 *	1.13	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	3.95 *	3.95 *	2.45	2.05	1.53	1.30			1.17	1.00	4.72
-2	3.37 *	3.37 *	2.35 *	2.07	1.55	1.32			1.52	1.30	4.04
-3									1 44 *	1.44*	2.89

- 1. LOAD POINT IS THE END OF THE ARM.
- 2. CAPACITIES MARKED WITH AN ASTERISK (*) ARE LIMITED BY HYDRAULIC CAPACITIES.
- 3. LIFT CAPACITIES SHOWN DO NOT EXCEED 75 % OF MINIMUN TIPPING LOADS OR 87 % OF HYDRAULIC CAPACITIES.
- 4. THE LEAST STABLE POSITION IS OVER THE SIDE.
- 5. THE TOTAL MASS OF MACHINE IS 7200 kg INCLUDED IN THIS MASS BOOM 3.62 m, ARM 1.67 m, 632 kg COUTNERWEIGHT,
- BUCKET WEIGHT O kg, ALL OPERATING FLUIDS AND A 75 kg OPERATOR. 6. LIFT CAPACITIES ARE IN COMPLIANCE WIHT ISO 10567.

: RATING OVER FRONT

: RATING OVER FRONT

☐ : RATING OVER SIDE OR 360 degree

☐ : 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") Unit: 1,000 kg

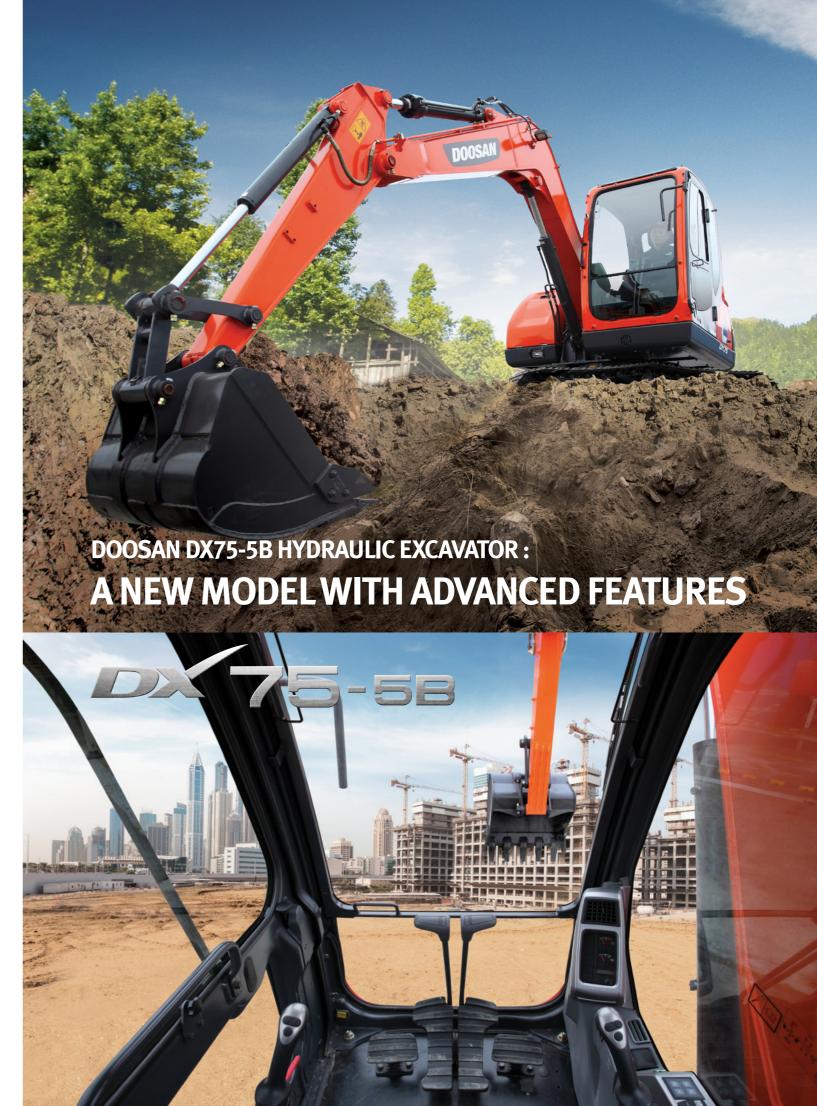
A(m)		1	2		3			4		5	Max. Rea		
B(m)	<u> </u>	(<u> </u>	G	4	(4	(<u> </u>	G	7	(A(m)
5					1.26 *	1.26 *					1.20 *	1.20 *	3.78
4					1.36 *	1.36 *	1.30 *	1.30 *			1.09 *	1.09 *	4.56
3			2.44 *	2.44 *	11.73 *	1.73 *	1.44 *	1.44 *	1.13	0.97	1.08 *	0.97	5.02
2					2.24 *	2.24 *	1.66	1.43	1.12	0.96	1.01	0.87	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 /// *	1 /// *	2.89

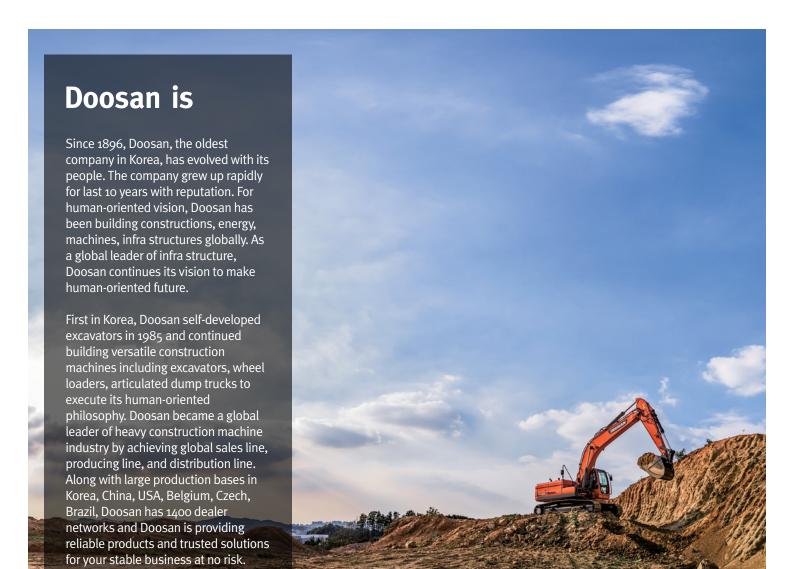
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Doosan Infracore Korea Office (HQ) 27F, Doosan Tower, 275, Jangchungdan-ro, Jung-gu, Seoul, Korea(04563) Tel: 82 2 3398 8114

DIPBE1028-01-1606

www.doosaninfracore.com/ce/