



DX480LC

Engine Power : SAE J1349, net 245kW(328HP)@1,800rpm Operational Weight : 47,500kg(104,700 lb) - STD. Bucket capacity(SAE) : 1.80 ~ 2.86m³(2.36 ~ 3.74 cu.yd)



Doosan DX480LC Hydraulic Excavator : A New Model with Novel Features



The new DX480LC hydraulic excavator has all the advantages of the previous model, and now offers additional added value to the operator.

The new DX480LC 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 is attributed to the electronic optimization of the hydraulic system and the new generation DOOSAN engine (Tier II / Stage II).

Improved ergonomics, increases comfort and excellent all round visibility ensuring a safe and pleasant working environment.

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.

Reduced maintenance increases the availability and reduces operating costs of the excavator.

DOOSAN



HANDLING

The hydraulic excavator's power, durability, ease of servicing and its precise control increase its effectiveness and life expectancy. With the DX480LC, DOOSAN offers an excellent return on investment.



Warning lights

Control panel

With color LCD display

Operation modes Mode selection Flow rate control Auto deceleration · Display selection

Choice of operating modes

- Working mode
- Digging mode: for general excavation, loading, lifting...
- Trenching mode: swing priority for trench work, canal digging, embankments ...

Power mode

- Standard: uses 85% engine power for all work
- Power: uses 100% engine power for heavy work



Control lever

Very precise control of the equipment increases versatility, safety and facilitates tricky operations requiring great precision. Leveling operations and particularly the movement of suspended loads are

made easier and safer.

The control levers have additional electrical buttons for controlling other additional equipment (for example, grabs, crushers, grippers, etc.)











Glass antenna

COMFORT

The work rate of the hydraulic excavator is directly linked to the performace of its operator. DOOSAN designed the DX480LC 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.

More space, better visibility, air conditioning, a very





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.



control the volume, and select a channel conveniently.



Air suspension seat (Opt.) 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.

Cellular phone box

12V Power socket

Cigarette lighter







Appropriate storage spaces show the attention given to the operator.





Comfortable 2-stage sliding seat Control stand (Telescopic Function)

PERFORMANCE

The performance of the DX480LC has a direct effect on its productivity. Its new "Common Rail" engine and new e-EPOS controlled hydraulic system have combined to create an unbeatable hydraulic excavator, with a cost/performance ratio that makes the DX480LC even more appealing.



At the heart of the hydraulic excavator is the new "Common Rail" DOOSAN DV11 engine. It is combined with the new e-EPOS electronic control system, for optimum power and fuel saving.

The new engine produces 328 hp(245 kw/333 PS) at only 1,800 rpm, and more torque, due to its careful design combined with the use of common rail injection and 4 valves per cylinder. These features help optimize combustion and minimize pollution through reduced Nox & particulate emissions.

Increased torque allows efficient use of the power of the hydraulic system.

- Faster working cycles increase productivity.
- Increased torque means the excavator is able to move more easily.
- Energy efficiency reduces fuel consumption.

DOOSAN infracore is aware of the importance of protecting the environment. Ecology was uppermost in the minds of the research workers right from the start of the design of the new machines. The new challenge for the engineers is to combine the protection of nature with equipment performance and to this end DOOSAN has been investing heavily.



The new DOOSAN engine respects and protects the environment, limiting all types of toxic emissions.



Hydraulic Pump

The Main pump has a capacity of $2x355 \ell$ /min reducing cycle time while a high capacity gear pump improves pilot line efficiency.



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







EXCAVATOR CONTROL

New e-EPOS system (Electronic Power Optimizing System)

The brains of the hydraulic excavator, the e-EPOS, have been improved and now can electronically link to the engines ECU (Electronic Control Unit), through a CAN (Controller Area Network) communication link, enabling a continuous exchange of information between the engine and the hydraulic system. These units are now perfectly synchronised.

The advantages of the new e-EPOS impacts at several levels, Ease of operation and user-friendliness:

- The availability of a power mode and a normal operating mode guarantee maximum efficiency under all conditions.
- Electronic control of fuel consumption optimizes efficiency.
- The automatic deceleration mode enables fuel saving.
- Regulation and precise control of the flow rate required by the equipment are available as standard.
- A self-diagnosis function enables technical problems to be resolved quickly and efficiently.
- An operational memory provides a graphic display of the status of the machine.
- Maintenance and oil change intervals can be displayed.

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.





The X-chassis frame section has been designed using finite element and

3-dimensional computer simulation, to ensure greater durability and

optimum structural integrity. The swing gear is solid and stable.

Strengthened Boom

The shape of the boom has been optimized by finite elements design, allowing uniform load distribution throughout the structure. This combined with increased material thickness means improved durability and reliability by limiting element fatigue.

Arm Assembly

In the arm assembly greater strength has been gained by using cast elements and reinforcement around the bosses to give it an increased lifetime.



Bucket

rear and lateral reinforcement plates and higher rigidity at the same time. and corners of the bucket.



Strong side doors

Highly wear-resistant materials are The robust appearance and the used for the most susceptible adhesive reinforcing plate have elements such as the blades, teeth, realized both an elegant appearance



D-type Frame

The D-type frame design adds strength and minimizes distortion due to shocks.



Radiator and oil cooler oil cooler help demonstrate the best resistance, vibration resistance and thermal strength.



Reinforced idler frame The advanced aluminum radiator and The robust appearance and the adhesive reinforcing plate have cooling efficiency and have also realized both an elegant appearance lifetime and extend the greasing and to increase the service intervals. drastically improved the pressure and higher rigidity at the same time.



Bushing

only required every 50 hours.



Ultra-hard wear-resistant disc A highly lubricated metal is used for New materials have been used in the boom pivot in order to increase the order to increase the wear resistance intervals to 250 hours. A rolled bushing The longevity is greatly increased by with very fine grooves has been added the addition of wear plates on the to the arm bucket pivot; so greasing is inside and outside of the bucket lugs.







Master pin

durability.

A lock pressure method has been The inner structure of the lower A double grouser shoe has been The strengthened drive motor frame adopted to fix the master pin and this roller body has been improved and prevents the pin from loosening from reliability testing has verified this is working in rocky conditions. the link, thus realizing a higher level of giving higher levels of durability. In addition, the number of track guards has been increased to three for each side to prevent track separation.



Integrated Track Spring and Idler The track spring and the idler have The chain is composed of self- A polymer shim is added to the A polymer material is used to durability and improved maintenance all external contamination. The pin and bushing life. convenience.



tracks are locked by mechanically bolted pins.



Double Grouser shoe (Opt.)

Strengthened drive motor frame applied to prevent sliding when helps prevent damage to the drive motor and drive piping when travelling on rough ground of changing direction, thus further improving their durability.

Pump coupling

been joined directly to achieve high lubricating sealed links isolated from bucket pivot to promote extended produce the coupling between the pump and engine. This material has a long life and reduces noise and vibration levels.

MAINTENANCE

Short maintenance operations at long intervals increase the availability of the equipment on site. DOOSAN has developed the DX480LC with a view to high profitability for the user.



Easy maintenance

Access to the various radiators and coolers is very easy, making cleaning easier. Access to the various parts of the engine is from the top and via side panels.



Maintenance of optimum cooling status During operation, forward rotations help maintains optimum cooling, while a convenientiy located switch allow the operator to reverse the rotation of the fan to help remove dust and foreign substances from the cooler, contributing to the maintenance of optimum cooling at at all times.



Counterweight

The integrated design and press shaping can minimize damages caused by scratches and the addition of a reflective plate has improved equipment discrimination.



Hydraulic oil return filter

filtered out, the oil change interval is intervals greater. increased.





Fuel filter

Engine oil filter

to avoid contaminating the

surrounding environment.

fuel.

The protection of the hydraulic The large capacity forced air cleaner High efficiency fuel filtration is Located on the right, the step helps system is more effective, using glass removes over 99% of airborne attained by the use of multiple you access the upper part of the fiber filter technology in the main oil particles, reducing the risk of engine filters, including a fuel pre-filter machine and get on and get off the return filter. This means that with contamination and making the fitted with a water separator that machine easily, in addition to more than 99.5% of foreign particles cleaning and cartridge change removes most moisture from the facilitating equipment checking.





PC Monitoring (DMS) as pump pressures, engine rotation and easy access. speed, etc. and these can be stored and printed for subsequent analysis.



Convenient Fuse Box A PC monitoring function enables The fuse box is conveniently located The engine oil filter offers a high level maintenance allowing various parameters to be compartment behind the operator's interval to be increased to 500 hours. for easy access. checked during maintenance, such seat providing a clean environment It is easy to access and is positioned



Centralized grease inlets for easy connection to the e-EPOS system, in a section of the storage of filtration allowing the oil change The arm grease inlets are grouped





TECHNICAL SPECIFICATIONS



Model

Doosan DV11

"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 phase III

•Number of cylinders

6 •Nominal flywheel power

245 kW(328 HP) @ 1,800 rpm (SAE J1349, net)

Max torque

157 kgf.m(1,540 Nm) at 1,300 rpm

Piston displacement

10,964 cc (669 cu.in)

•Bore & stroke

128 mm x 142 mm (5'0" X 5'6")

•Starter

24 V / 7 kW

Batteries

2 X 12 V / 150 Ah

Air cleaner

Double element and pre-filtered Turbo with auto dust evacuation.

HYDRAULIC SYSTEM

The heart of the system is the e-EPOS (Electronic Power Optimizing System). It allows the efficiency of the system to be optimized for all working conditions and minimizes fuel consumption.

The new e-EPOS is connected to the engine electronic control via a data transfer link to harmonize the operation of the engine and hydraulics.

- The hydraulic system enables independent or combined operations.
- Two travel speeds offer either increased torque or high speed tracking.
- 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 355 l /min (2 X 93 US gpm, 2 X 78 lmp gpm)

•Pilot pump

Gear pump - max flow: 22 ℓ/min (5.8 US gpm, 4.8 lmp gpm)

•Maximum system pressure

- Boom/arm/Bucket:
- Normal mode: 320 kgf/cm²(314 bar) Power mode: $350 \text{ kgf/cm}^2(343 \text{ bar})$ Travel: 320 kgf/cm²(314 bar) Swing: 260 kgf/cm²(255 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.

Cylinders	Quantity	Bore x Rod diameter x stroke
Boom	2	170 X 115 X 1,610mm(6.7" X 4.5" X 5'3")
Arm	1	190 X 130 X 1,980mm(7.5" X 5.1" X 6'6")
Bucket	1	170 X 115 X 1,341mm(6.7" X 4.5" X 4'5")

*** UNDERCARRIAGE**

Chassis are of very robust construction, all welded structures are designed to limit stresses.

High-quality material used for durability.

Lateral chassis welded and rigidly attached to the undercarriage. Track rollers lubricated for life, idlers and sprockets fitted with floating seals. Tracks shoes made of induction-hardened alloy with double grouser. Heat-treated connecting pins.

Hydraulic track adjuster with shock-absorbing tension mechanism.

•Number of rollers and track shoes per side

Upper rollers: 3 (standard shoes) Lower rollers: 9 Shoes: 53 Total length of track: 5,465mm (17'11")

Noise levels comply with environmental regulations (dynamic values).

Sound level guarantee

105 dB(A) (2000/14/EC)

•Cab sound level

71.5 dB(A) (ISO 6396)

Сара	city	Wi	dth			Recomme	ndation	
PCSA, heaped	CECE heaped	Without side cutters	With side cutters	Weight	2,900mm (9'6")Arm	3,350mm(Std.) (12'10")Arm	3,980mm (11')Arm	3,350mm (12'10")HD Arm
1.80m ³ (2.35yd ³)	1.6m³ (2.09yd³)	1.372mm (4'6")	1,465mm (4'10")	1,733kg (3,820lb)	А	А	А	А
2.15m ³ Std.(2.80yd ³)	1.9m³ (2.49yd³)	1,588mm (5'3")	1,681mm (5'6")	1,923kg (4,239lb)	A	A	В	A
2.39m ³ (3.12yd ³)	2.1M ³ (2.75yd ³)	1,732mm (5'8")	1,445mm (4'9")	2,041kg (2,427lb)	A	В	В	В
2.86m³ (3.73yd³)	2.5m³ (3.27yd³)	2,022mm (6'8")	2,115mm (6'11")	2,293kg (5,055lb)	A	В	С	В
HD.1.71m ³ (2.24yd ³)	1.5m ³ (1.96yd ³)	1,792mm (5'11")	1,867mm (6'2")	1,336kg (2,945lb)	-	-	-	A

A. Suitable for materials with density of 2,000 kg/m³ (3,370 lb/CU \cdot yd) or less B. Suitable for materials with density of 1,600 kg/m³ (2,700 lb/CU \cdot yd) or less

C. Suitable for materials with density of 1,100 kg/m 3 (1,850 lb/CU \cdot yd) or less

Boom 7,100 mm (23'4")•Arm 3,350 mm (11')•Bucket SAE 2.15 m3 (2.80 yd3)

	Shoe width	Operating weight	Ground pressure (kgf/cm ²)
Triple Grouser	(Std)600 mm (2')	47,500 kg (104,700 lb)	0.81 kgf/cm² (79 kpa, 11.5 psi)
	750 mm (2 ' 6")	48,200 kg (106,300 lb)	0.66 kgf/cm² (65 kpa, 9.4 psi)
	800 mm (2'8")	48,500 kg (106,900 lb)	0.62 kgf/cm² (61 kpa, 8.8 psi)
	900 mm (2'11")	49,000 kg (108,025 lb)	0.56 kgf/cm² (55 kpa, 8.0 psi)
Double Grouser	(Opt)600 mm (2')	48,400 kg (106,700 lb)	0.83 kgf/cm² (81 kpa, 11.8 psi)

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: o to 8.8 rpm

Each track is driven by an independent axial piston motor through a planetary reduction gearbox.

Two levers with control pedals guarantee smooth travel with counterrotation on demand.

•Travel speed (fast/slow)

5.0/3.1km/h (3.1/1.9mph)

•Maximum traction force

17,800 / 33,600 kgf (39,242 / 74,074 lbf)

•Maximum grade

35° / 70%

•Fuel tank

620 ℓ (164 US gal, 136 lmp gal)

•Cooling system (Radiator capacity)

40ℓ (10.6 US gal, 8.8 lmp gal)

•Engine oil

44ℓ (11.6 US gal, 9.7 lmp gal)

•Swing drive

4 ℓ (1.1 US gal, 0.9 lmp gal)

•Final drive (each)

6ℓ (1.6 US gal, 1.3 lmp gal)

Hydraulic system

500 ℓ (132.1 US gal, 110 lmp gal)

Hydraulic tank

265 l (70 US gal, 58.3 lmp gal)

DIMENSIONS



*** DIMENSIONS**

Boom 7,100 mm (23'4") - Arm 3,350 mm (11') - Shoe 600 mm (2') - Std

Boom type (One piece)		7,100	mm(23'4")	
Arm type	2,900mm	(Std.) 3,350mm	3,980mm	3,350mm(HD)
	(9'6")	(11')	(13'1")	(11')
Bucket type (pcsa)	2.39m3	(Std.) 2.15m3	1.80m ³	1.71m3(HD)
A Tail Swing Radius	→ →	3,700mm	←	←
	2 800mm	2 £80mm	2 820mm	2 E80mm
B Shipping Height (Boom)	(12'6")	(11'0")	(12'6")	(11'0")
	3.900mm	3.730mm	3.935mm	3.730mm
C Shipping Height (Hose)	(12'10")	(12'3")	(12'11")	(12'3")
D. Chinning Longth	11,425mm	12,130mm	12,210mm	12,130mm
	(37'6")	(39'10")	(40'1")	(39'10")
F Shipping Width (Std.)	\rightarrow	3,340mm	←	←
		(10'11")		
E* Shipping Width (Narrow)	→	2,990mm	←	←
		(9'10")		
F C/Weight Clearance	→ →	1,460mm	←	1,470mm
		(49)		(4 10) 2 46cmm
G Height Over CAB.		(10'12")		(11'/4")
		2.990mm	←	(++ 4)
H House Width		(9'10")		
L CAP Usight shows Using		845mm	←	←
I CAB. Height above House		(2'9")		
L CAB Width	→ →	1,010mm	←	←
		(3'4")		
K Tumbler Distance	→	4,470mm	←	←
		(14'8")		
L Track Length	→	5,465mm	←	<i>←</i>
		(1/11)	←	—
M Undercarriage Width (Std.)		(10'11"/12'10"*)		-
		2.990mm/3.520mm*	←	←
M* Undercarriage Width (Narrow)		(9'10"/11'7"*)		
	\rightarrow	600mm	←	←
		(2')		
0 Track Height	→	1,210mm	←	1,230mm
		(3'12")		(4')
P Car Body Clearance	→	770mm	←	780mm
,		(2'6")		(2'7")

*: Retracted/Extended

* DIGGING FORCE (ISO)

Bucket (PCSA)	1.80m ³	(Std.)2.15m3	2.39m ³	2.86m ³	1.17m³ (HD)	
	30,800 kgf	30,800 kgf	30,800 kgf	30,800 kgf	30,300 kgf	
Digging force	302 kN	302 kN	302 kN	302 kN	297 kN	
	67,901 lbf	67,901 lbf	67,901 lbf	67,901 lbf	66,799 lbf	
Arm	2,900mm		(Std.) 3,350mm		3,980mm	
	25,800 kgf		22,600 kgf		20,300 kgf	
Digging force	250 kN		220 kN		200 kN	

At power boost (ISO)

WORKING RANGES



***WORKING RANGE**

Boom length		(Std.) 7,100m	m(23'4")	
Arm length	2,900mm	(Std.)3,350mm	3,980mm	3,350mmHD
	(9'6")	(11')	(13'1")	(11')
Bucket type(pcsa)	2.39m ³	(Std.)2.15m ³	1.8m ³	1.71M ³
A. Max. digging reach	11,720	12,120	12,670	12,150
	(38'5")	(39'9")	(41'7")	(39'10")
B. Max. digging reach at ground level	11,460	11,870	12,430	11,900
	(37'7")	(38'11")	(40'9")	(39'1")
C. Max. digging depth	7,360	7,810	8,440	7,850
	(24'2")	(25'7")	(27'8")	(25'9")
D. Max. dumping height	7,730	7,880	8,040	7,850
	(25'4")	(25'10")	(26'5")	(25'9")
E. Min. dumping height	3,580	3,125	2,500	3,110
	(11'9")	(10'3")	(8'2")	(10'2")
F. Max. digging height	10,940	11,080	11,230	10,930
	(35'11")	(36'4")	(36'10")	(35'10")
G. Max. bucket pin height	9,560	9,705	9,850	9,720
	(31'4")	(31'10")	(32'4")	(31'11")
H. Max.vertical wall depth	4,080	4,410	4,965	5,310
	(13'5")	(14'6")	(16'3")	(17'5")
I. Max. radius vertical	9,705	9,970	10,235	9,310
	(31'10")	(32'9")	(33'7")	(30'7")
J. Max. digging depth(8'level)	7,200	7,675	8,320	7,700
	(23'7")	(25'2")	(27'4")	(25'3")
k. Min. radius 8' line	3,935	3,950	3,935	3,935
	(12'11")	(13'0")	(12'11")	(12'11")
L. Min. digging reach	2,050	880	80	820
	(6'9")	(2'11")	(3")	(2'8")
M. Min.swing radius	5,190	5,170	5,140	5,170
	(17')	(17')	(16'10")	(17')
d. Bucket angle	174 [°]	174 [°]	174 [°]	174 [°]



LIFTING CAPACITY





STANDARD CONFIGURATION

Metr	ic	Boo	m : 7,10	omm(23	'4") A	rm : 3,3	50mm(1:	1') Bu	cket : S	AE 2.15	n³ HEAP	ED(CECE	1.88 m³)) Sho	e : 600m	ım(2')		Unit:	1,000kg
A(m)		2	:	3		4		5	e	5		7	8	3	9	,	Ν	Aax. Reac	h
B(m)	Ъ	(]	Ъ	(‡	Ъ	(‡	Ъ	(‡	Ш	(‡	Ъ	(] a	Ъ	(Ha	Ь	(‡	ł	(] =	A(m)
8													*9.52	*9.52			*7.90	*7.90	8.63
7													*9.73	*9.73	*9.48	7.95	*7.90	*7.57	9.21
6											*10.99	*10.99	*10.20	9.89	*9.66	7.94	*8.02	*6.90	9.65
5							*16.18	*16.18	*13.62	*13.62	*11.96	*11.96	*10.82	9.74	*10.02	7.88	*8.22	6.44	9.97
4							*18.76	*18.76	*15.23	*15.23	*13.02	11.98	*11.53	9.57	*10.46	7.78	*8.52	6.15	10.18
3							*21.04	20.05	*16.73	14.97	*14.04	11.68	*12.22	9.38	10.84	7.66	*8.55	5.98	10.28
2							*22.56	19.44	*17.91	14.56	*14.90	11.41	*12.83	9.20	10.72	7.55	*8.49	5.93	10.29
1							*20.91	19.08	*18.66	14.27	*15.51	11.20	12.89	9.05	10.61	7.45	8.59	5.99	10.20
O (Ground)					*10.32	*10.32	*23.14	18.91	*18.95	14.09	*15.82	11.05	12.78	8.94	10.54	7.38	8.84	6.17	10.00
-1			*9.22	*9.22	*15.44	*15.44	*22.78	18.88	*18.80	14.01	*15.78	10.97	12.71	8.88	10.50	7.35	9.30	6.50	9.70
-2	*12.18	*12.18	*15.00	*15.00	*21.40	*21.40	*21.83	18.94	*18.21	14.01	*15.35	10.96	12.70	8.87	10.51	7.36	10.02	7.02	9.27
-3	*17.58	*17.58	*21.14	*21.14	*24.32	*24.32	*20.38	19.09	*17.13	14.09	*14.44	11.01	*12.08	8.92			*10.31	7.82	8.72
-4			*25.62	*25.62	*21.65	*21.65	*18.30	*18.30	*15.42	14.24	*12.84	11.14					*10.16	9.09	7.99
-5			*20.95	*20.95	*17.99	*17.99	*15.28	*15.28	*12.70	*12.70	*9.84	*9.84					*9.68	*9.68	7.04

Feet												Ur	it : 1,000lb
A(ft)	1	10'	1	5'	2	0'	2	5'	30)'	I	Max. Reach	
B(ft)	Ъ	(‡	Ъ	(]	Ъ	(]	Н	(‡	Ъ	(]	f	(]	A(ft)
25							*21.28	*21.28			*17.38	*17.38	29.10
20							*22.93	*22.93	*21.13	16.99	*17.64	15.33	31.54
15			*42.24	*42.24	*31.06	*31.06	*25.48	23.18	*22.26	16.78	*18.38	13.89	33.04
10			*40.78	*40.78	*36.05	32.21	*28.22	22.44	23.26	16.44	18.86	13.20	33.72
5			*27.56	*27.56	*39.62	30.98	*30.43	21.77	22.89	16.10	18.78	13.11	33.65
O'(Grour	d)		*36.44	*36.44	*41.02	30.29	30.50	21.31	22.63	15.85	19.50	13.61	32.81
-5	*27.48	*27.48	*53.47	48.66	*40.20	30.09	30.30	21.12	22.56	15.78	21.25	14.86	31.14
-10	*47.86	*47.86	*48.25	*48.25	*37.01	30.28	*28.44	21.24			*22.72	17.34	28.49
-15	*50.62	*50.62	*39.57	*39.57	*30.37	*30.37					*21.72	*21.93	24.54

Ratings are based on SAE J1097
 The load point is a hook located on the back of the bucket.
 * Rated loads are based on hydraulic capacity.
 Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping capacity.

🖞 :Rating Over Front 🚰 : Rating Over Side or 360 degree

Option 1 - Track width : 3,900mm(12'10")

Metr	ic	Boo	om : 7,10	omm(23	3'4") <i>I</i>	Arm : 2,9	oomm(9'6")	Bucket :	SAE 2.	39m³ HE	APED(CI	ECE 2.09	m³) S	hoe : 6o	omm(2'	n(2') Unit : 1,000kg			
A(m)		2		3		4		5		6	;	7	8	3	9		Max. Reach			
B(m)	ľ	(]	Ъ	(‡	ŀ	(‡	ŀ	(‡	F	(‡	Ъ	(‡	f	(]	H	(] a	F	(]	A(m)	
8													*10.10	9.66			*10.12	9.30	8.15	
7											*10.73	*10.73	*10.16	9.71			*9.99	8.10	8.76	
6											*11.46	*11.46	*10.56	9.65	*10.00	7.69	*9.94	7.31	9.22	
5											*12.37	11.99	*11.13	9.51	*10.27	7.65	9.67	6.78	9.55	
4					*22.26	*22.26	*17.04	*17.04	*14.09	*14.09	*13.36	11.69	*11.76	9.33	*10.64	7.57	9.23	6.45	9.77	
3							*19.55	*19.55	*15.72	15.17	*14.27	11.39	*12.38	9.15	10.63	7.46	8.99	6.26	9.88	
2							*21.50	19.71	*17.12	14.71	*15.01	11.14	12.83	8.98	10.52	7.36	8.93	6.20	9.89	
1					*9.81	*9.81	*22.71	19.21	*18.13	14.34	*15.48	10.94	12.68	8.84	10.43	7.27	9.04	6.28	9.79	
O (Ground)					*12.19	*12.19	*23.20	18.92	*18.71	14.09	*15.62	10.82	12.58	8.75	10.38	7.22	9.35	6.49	9.59	
-1	*7.04	*7.04	*9.77	*9.77	*15.70	*15.70	*23.11	18.79	*18.85	13.95	*15.41	10.77	12.54	8.71	10.37	7.21	9.88	6.87	9.27	
-2	*11.17	*11.17	*14.05	*14.05	*20.13	*20.13	*22.51	18.77	*18.55	13.90	*14.79	10.79	*12.48	8.74			*10.54	7.49	8.83	
-3	*15.41	*15.41	*18.81	*18.81	*25.65	*25.65	*21.41	18.86	*17.80	13.93	*13.62	10.88	*11.14	8.84			*10.45	8.46	8.24	
-4	*20.12	*20.12	*24.42	*24.42	*23.85	*23.85	*19.73	19.02	*16.50	14.03	*11.54	11.08					*10.12	10.06	7.46	
-5	*25.69	*25.69	*25.19	*25.19	*20.73	*20.73	*17.30	*17.30	*14.46	14.23							*9.25	*9.25	6.44	

Feet												U	nit : 1,000lb
A(ft)	1	10'	1	5'	2	0'	2	5'	3	0'		Max. Reach	
B(ft)	ł	(‡	F	<mark>(</mark> ‡=	F	(F a	F	(F	(‡	ł	(‡	A(ft)
25							*22.40	*22.40			*22.17	19.35	27.55
20					*27.57	*27.57	*23.81	23.26	*21.94	16.39	*21.92	16.25	30.12
15					*32.26	*32.26	*26.16	22.64	*22.73	16.30	20.85	14.59	31.69
10					*36.83	31.37	*28.63	21.89	22.81	16.00	19.84	13.81	32.41
5					*39.74	30.20	30.47	21.25	22.49	15.69	19.75	13.72	32.33
O(GROUND)			*31.36	*31.36	*40.41	29.64	30.04	20.85	22.28	15.50	20.60	14.31	31.45
-5			*50.63	47.97	*38.90	29.58	29.94	20.76			22.68	15.79	29.70
-10	*53.14	*53.14	*44.77	*44.77	*34.93	29.94	*26.53	21.02			*23.01	18.78	26.91
-15	*42.53	*42.53	*35.02	*35.02	*26.80	*26.80					*21.43	*21.43	22.68

Option 2 - Track width : 3,900mm(12'10")

Metri	Netric Boom : 7,100mm(23'4			'4") A	4") Arm : 3,980mm(11') Bucket : SAE 1.80m ³ HEAPED(CECE 1.57m ³) Shoe :							hoe : 600mm(2')		Unit : 1,000kg		1,000kg			
A(m)	:	2		3		4	5	5		6	7	7	٤	3	9)	N	lax. Reac	h
B(m)	Ч	(]	ď	(]	Ъ	(]	Ч	(‡	Ч	(]	Ч	(‡	Ъ	(‡	Н	(Ъ	(] a	A(m)
8															*8.25	8.15	*6.57	*6.57	9.28
7													*8.93	*8.93	*8.71	8.17	*6.59	*6.59	9.82
6													*9.45	*9.45	*9.00	8.11	*6.69	6.28	10.23
5											*11.08	*11.08	*10.12	9.89	*9.44	8.01	*6.86	5.89	10.53
4					*22.26	*22.26	*17.04	*17.04	*14.09	*14.09	*12.19	12.14	*10.89	9.69	*9.94	7.89	*7.11	5.64	10.73
3							*19.55	*19.55	*15.72	15.17	*13.30	11.81	*11.66	9.47	*10.47	7.74	*7.43	5.49	10.83
2							*21.50	19.71	*17.12	14.71	*14.30	11.50	*12.36	9.26	10.78	7.60	7.81	5.43	10.84
1					*9.81	*9.81	*22.71	19.21	*18.13	14.34	*15.08	11.24	12.93	9.08	10.64	7.48	7.87	5.47	10.75
O (Ground)					*12.19	*12.19	*23.20	18.92	*18.71	14.09	*15.58	11.05	12.78	8.94	10.54	7.38	8.07	5.61	10.56
-1	*7.04	*7.04	*9.77	*9.77	*15.70	*15.70	*23.11	18.79	*18.85	13.95	*15.75	10.93	12.67	8.85	10.47	7.32	8.44	5.87	10.28
-2	*11.17	*11.17	*14.05	*14.05	*20.13	*20.13	*22.51	18.77	*18.55	13.90	*15.57	10.87	12.63	8.80	10.45	7.29	9.00	6.28	9.88
-3	*15.41	*15.41	*18.81	*18.81	*25.65	*25.65	*21.41	18.86	*17.80	13.93	*14.98	10.88	12.64	8.82	10.48	7.33	*9.83	6.90	9.36
-4	*20.12	*20.12	*24.42	*24.42	*23.85	*23.85	*19.73	19.02	*16.50	14.03	*13.86	10.96	*11.52	8.90			*9.84	7.85	8.69
-5	*25.69	*25.69	*25.19	*25.19	*20.73	*20.73	*17.30	*17.30	*14.46	14.23	*11.91	11.13					*9.67	9.39	7.83

Feet												Ur	iit : 1,000lb
A(ft)	1	0'	1	5'	2	0'	2	5'	3	0'		Max. Reach	
B(ft)	Н	(‡	Н	(F a	Н	(]	Ь	(F a	Н	(]	Н	(F a	A(ft)
25									*19.06	17.44	*14.48	*14.48	31.17
20							*21.16	*21.16	*19.67	17.37	*14.72	13.95	33-45
15					*28.54	*28.54	*23.85	23.52	*21.06	17.05	*15.34	12.72	34.87
10			*48.08	*48.08	*33.88	32.65	*26.84	22.67	*22.71	16.62	*16.34	12.11	35.52
5			*39.74	*39.74	*38.17	31.21	*29.44	21.88	22.99	16.18	17.25	11.99	35-45
O(GROUND)			*40.58	*40.58	*40.48	30.30	30.50	21.30	22.63	15.85	17.80	12.37	34.66
-5	*26.83	*26.83	*52.25	48.28	*40.60	29.90	30.16	20.99	22.46	15.68	19.19	13.37	33.08
-10	*42.53	*42.53	*51.14	48.62	*38.47	29.93	*29.70	20.99	22.55	15.77	*21.67	15.29	30.60
-15	*59.24	*59.24	*43.96	*43.96	*33-47	30.36	*25	21.34			*21.55	19.03	26.97

LIFTING CAPACITY



STANDARD AND OPTIONAL EQUIPMENT

Option 3 - Track width : 3,900mm(12'10")

Metric Boom : 7,100mm(23'4") Arm : 3,350mm(11') Bucket : SAE 1.71m³ HEAPED(CECE 1.48m³) Shoe : 600mm(2') Double Grouser Unit : 1,000kg

A(m)) 2 3		4		5		6		7		8		9		Max. Reach				
B(m)	Ъ	(]	H	(]	Ъ	(]	Ъ	(]	ľ	(]	Ъ	(]	H	(]	F	(]	ľ	(]	A(m)
8													*9.35	*9.35			*7.81	*7.81	8.64
7													*9.55	*9.55	*9.31	7.84	*7.81	7.45	9.22
6											*10.80	*10.80	*10.01	9.76	*9.48	7.82	*7.91	6.77	9.65
5							*15.94	*15.94	*13.40	*13.40	*11.75	*11.75	*10.62	9.60	*9.83	7.74	*8.11	6.32	9.97
4							*18.50	*18.50	*14.99	*14.99	*12.80	11.81	*11.32	9.41	*10.27	7.63	*8.39	6.02	10.18
3							*20.75	*19.80	*16.47	14.76	*13.80	11.50	*12.00	9.21	*10.71	7.51	8.44	5.85	10.28
2							*22.26	19.18	*17.64	14.34	*14.65	11.22	*12.60	9.02	10.59	7.39	8.38	5.79	10.29
1							*20.93	18.82	*18.37	14.04	*15.25	11.00	12.74	8.87	10.48	7.29	8.47	5.85	10.19
O (Ground)					*10.30	*10.30	*22.95	18.66	*18.66	13.86	*15.55	10.85	12.62	8.76	10.40	7.21	8.73	6.02	10.00
-1			*9.18	*9.18	*15.45	*15.45	*22.45	18.63	*18.50	13.78	*15.50	10.77	12.56	8.69	10.36	7.18	9.18	6.35	9.69
-2	*12.12	*12.12	*14.98	*14.98	*21.44	*21.44	*21.50	18.69	*17.91	13.78	*15.07	10.75	12.55	8.69	10.38	7.19	9.90	6.86	9.27
-3	*17.56	*17.56	*21.15	*21.15	*23.95	*23.95	*20.04	18.84	*16.83	13.87	*14.16	10.81	*11.83	8.74			*10.08	7.66	8.71
-4			*25.18	*25.18	*21.27	*21.27	*17.95	*17.95	*15.11	14.03	*12.56	10.95					*9.93	8.94	7.98
-5			*20.49	*20.49	*17.59	*17.59	*14.93	*14.93	*12.38	*12.38	*9.54	*9.54					*9.43	*9.43	7.03

Feet												Ur	nit : 1,000lb
A(ft)	10'		15'		20'			5'	3	D'	Max. Reach		
B(ft)	H	(‡	F	(]	F	÷	F	(F a	ľ	(‡	ľ	(]	A(ft)
25							*20.90	*20.90			*17.19	*17.19	29.12
20							*22.51	*22.51	*20.74	16.72	*17.41	15.06	31.55
15			*41.67	*41.67	*30.55	*30.55	*25.02	22.85	*21.84	16.48	*18.11	13.60	33.05
10			*40.60	*40.60	*35.48	31.76	*27.72	22.05	22.99	16.10	18.62	12.90	33.73
5			*27.53	*27.53	*39.01	30.49	*29.89	21.35	22.60	15.74	18.53	12.79	33.65
O(GROUND)			*36.47	*36.47	*40.38	29.79	30.15	20.88	22.33	15.48	19.24	13.28	32.80
-5	*27.42	*27.42	*52.71	48.08	*39.54	29.59	29.95	20.70	22.26	15.42	20.99	14.53	31.13
-10	*47.90	*47.90	*47.47	*47.47	*36.34	29.80	*27.86	20.83			*22.23	17.00	28.47
-15	*49.63	*49.63	*38.77	*38.77	*29.69	*26.69					*21.39	*21.39	24.51

Option 4 - Track width : 3,520mm(11'7")

Metr	ic I	Boom : 7,100mm(23'4")			Arm : 3,350mm(11') Buo				Bucket : SAE 2.15m ³ HEAPED(CECE 1.88m ³) Shoe : 600mm(2')										Unit : 1,000kg			
A(m)		2		3 4		4	5		6		7		8		9		Max. Reach					
B(m)	Ъ	(]	Ъ	(‡	Ъ	(‡ 9	Ъ	(]	Ъ	(]	Ъ	(]	Ъ	<mark>(</mark> ‡=	f	(]	ľ	(]	A(m)			
8													*9.52	8.73			*7.90	7.48	8.63			
7													*9.73	8.73	*9.48	6.92	*7.90	6.58	9.21			
6											*10.99	10.95	*10.20	8.65	*9.66	6.92	*8.02	5.98	9.65			
5							*16.18	*16.18	*13.62	*13.62	*11.96	10.71	*10.82	8.51	*10.02	6.86	*8.22	5.57	9.97			
4							*18.76	17.94	*15.23	13.40	*13.02	10.44	*11.53	8.33	*10.46	6.76	*8.52	5.30	10.18			
3							*21.04	17.17	*16.73	12.95	*14.04	10.15	*12.22	8.15	*10.92	6.65	8.64	5.15	10.28			
2							*22.56	16.59	*17.91	12.56	*14.90	9.89	*12.83	7.98	10.83	6.54	8.59	5.10	10.29			
1							*20.91	16.25	*18.66	12.28	*15.51	9.69	13.03	7.84	10.73	6.44	8.68	5.15	10.20			
O (Ground)					*10.32	*10.32	*23.14	16.09	*18.95	12.11	*15.82	9.54	12.91	7.73	10.65	6.37	8.94	5.31	10.00			
-1			*9.22	*9.22	*15.44	*15.44	*22.78	16.06	*18.80	12.03	*15.78	9.47	12.84	7.67	10.61	6.34	9.40	5.60	9.70			
-2	*12.18	*12.18	*15.00	*15.00	*21.40	*21.40	*21.83	16.12	*18.21	12.03	*15.35	9.45	12.83	7.66	10.62	6.35	10.13	6.05	9.27			
-3	*17.58	*17.58	*21.14	*21.14	*24.32	*23.88	*20.38	16.26	*17.13	12.11	*14.44	9.50	*12.08	7.71			*10.31	6.76	8.72			
-4			*25.62	*25.62	*21.65	*21.65	*18.30	16.47	*15.42	12.26	*12.84	9.63					*10.16	7.87	7.99			
-5			*20.95	*20.95	*17.99	*17.99	*15.28	*15.28	*12.70	12.51	*9.84	*9.84					*9.68	*9.68	7.04			

Feet	et Unit : 1														
A(ft)	10'		15'		20'		25'		30'		Max. Reach				
B(ft)	Н	(Fr	Н	(]	Ь	(Fr	Н	(]	Ъ	(‡	Ь	(‡P	A(ft)		
25							*21.28	21.12			*17.38	15.64	29.10		
20							*22.93	20.83	*21.13	14.79	*17.64	13.29	31.54		
15			*42.24	*42.24	*31.06	29.37	*25.48	20.23	*22.26	14.59	*18.38	12.00	33.04		
10			*40.78	*40.78	*36.05	27.89	*28.22	19.51	23.50	14.25	19.07	11.37	33.72		
5			*27.56	*27.56	*39.62	26.71	*30.43	18.86	23.13	13.92	18.99	11.27	33.65		
O(GROUND)			*36.44	*36.44	*41.02	26.05	30.81	18.42	22.87	13.68	19.71	11.70	32.81		
-5	*27.48	*27.48	*53.47	41.12	*40.20	25.86	30.61	18.24	22.80	13.61	21.48	12.81	31.14		
-10	*47.86	*47.86	*48.25	41.66	*37.01	26.04	*28.44	18.35			*22.72	14.99	28.49		
-15	*50.62	*50.62	*39.57	*39.57	*30.37	26.63					*21.93	19.45	24.54		

*	STA	NDA	RD	EQU	IPM	ENT

Hydraulic system

- •Boom and arm flow regeneration
- •Boom and arm holding valves
- •Swing anti-rebound valves
- Spare ports(valve)
- One-touch power boost

•Cabin & Interior

- Viscous cab mounts
- •All weather sound suppressed type cab
- Air conditioner
- Adjustable suspension seat with head rest and adjustable arm rest
- •Pull-up type front window and removable lower front window
- •Room light
- iteen ugite
- Intermittent windshield wiper
 Cigarette lighter and ashtray
- •Cup holder
- •Hot & Cool box
- •LCD color monitor panel
- •Fuel control dial
- •AM/FM radio and cassette player
- •Remote radio ON/OFF switch
- •12V spare powers socket
- •Serial communication port for laptop PC interface
- •Joystick lever with 3 switches
- Sunvisor
- •Sun roof

*** 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/Frount guard(ISO 10262, FOGS standard)
- Travel & swing alarm
- Rotation beacon

•Cabin & Interior

•Air suspension seat •MP3/CD player

•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
- Travel alarm

•Others

- •Double element air cleaner
- •Pre-cleaner
- •Water separator
- •Dust screen for radiator/oil cooler
- •Engine overheat prevention system
- •Engine restart prevention system
- •Self-diagnostic system
- •Alternator(24V, 50 amps)
- •Electric horn
- •Halogen working lights(frame mounted 2, boom mounted 4, cabin mounted 2)
- •Hydraulic track adjuster
- •Track guards
- •Double fuel filter
- •Greased and sealed track link

•Others

- Piping for crusher
- •Piping for quick clamp
- •Breaker filter
- •750mm/800mm/900mm shoe
- •Full track guards
- •Lower wiper
- •Fuel heater
- •Double grouser shoe



Doosan Infracore Korea Office

27/F, Doosan Tower 18-12, Euljiro-6Ga, Jung-Gu Seoul 100-730 Korea Tel : 82 2 3398 8114

Doosan Infracore Europe S.A. Add 1A, Rue Achille Degrace Frameries B7080 Belgium Tel : 32 478295266

Doosan Infracore U.K. Unit 6.3- Nantgarw Park Treforest Ind. Estate Cardiff CF157QU U.K. Tel : 44 1443 845650

Doosan Infracore Europe S.A. Germany Heinrich von stephan Strasse 2 Langenfeld-Fuhrkamp DE-40764 Germany Tel : 49 2173 2035218

Doosan Infracore France ZAC de la Clef Saint Pierre - Buroplus 2 1a, avenue Jean d' Alembert Elancourt F78990 France Tel : 33 1 3016 2151

Doosan Infracore America Corporation

2905 Shawnee Industrial Way, Suwanee, Georgia 30024, U. S. A Tel : 770 831 2236

Doosan Infracore China Co., Ltd.

No.28 Wuzhishan Road, Eco&Tech. Development Area, Yantai Shandong 264006 China Tel : 135 0535 2797

Doosan Infracore Russia 123610, MOSCOW / Russia Fed., Kransnopresnenskaya quay 12, Office No. 1503 Tel: 7 495 258 1837

Doosan Infracore Middle East Center (Dubai) P.O.Box 183127, Al-Serkal Building, Air Port Road, Dubai, U.A.E Tel : 971 4 295 2781~2

Doosan Infracore do Brasil ServiÇos de Suporte Comercial Ltda. Alameda Santos 2222 CJ52, 5a andar, Cerqueria Cesar CEP 01418.200 Sao Paulo Brazil Tel : 55 11 3061 3227

Doosan Infracore India Pvt.Ltd

3rd Floor, TNPL Building No.67, Mount Road, Guindy Chennai 600032 India Tel : 91 99 4064 8687



ce.doosaninfracore.co.kr