



0.24 - 0.76 m<sup>3</sup>

\* 82 kW (109 HP) @ 1850 rpm

📤 | 15600 - 16700 kg





# DX140LC-3 / DX160LC-3

**Crawler Excavator** 





# **Doosan – Building your tomorrow today**

# ■ Be part of the great Doosan family

The Doosan Group was founded in 1896. It is headquartered in Seoul, South Korea, and today is one of the fastest growing companies in the world:

From 1896, the first modern local store in Korea



117 years of history 43100 employees in 34 countries

20th century & beyond, major player in various industries all around the world



Today, a global leader

in the Infrastructure

**Global presence:** 

- 56 subsidiaries
- 3700 distributors worldwide

# AN EXPLOSIVE GROWTH RECORD



## Dramatic growth over the past decade:

- 23% average annual revenue growth since 2000
- From 3.4 to 24.6 KRW trillion between 1998 and 2010

# Doosan – One-stop shop

# ■ From machine manufacturer... TO FULL SOLUTION PROVIDER

All Doosan Infracore Construction Equipment products are designed and built to deliver the highest levels of performance and productivity. Parts and service support are intended to fully maintain the performance, productivity and reliability expected of our products throughout their entire lifetime as well as ensure the highest trade-in and residual values.

# Ask your dealer for a full range of services designed for you!

Your dealer is your local specialist to ensure you receive the maximum benefits from our integrated package. Think in advance, think to ensure the success of your equipment!

- **0** Genuine parts
- **2** Extension of warranty
- **19** Maintenance contract
- **4** Telematics
- **6** Monitoring systems
- **©** Financial solutions
- Doosan approved attachments



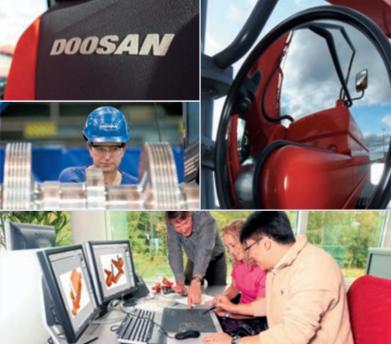


















# Doosan Group



# **Doosan Engine**

• World N° 2 in medium speed



## **Doosan Mecatec**

- World N° 1 chemical process equipment company
- 60000 tonnes annual production capacity



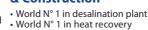
# **Doosan Construction** & Engineering

A pioneering leader in construction of residential and public buildings, civil works and industrial facilities.



# **Doosan Heavy Industries**

& Construction steam generator area



• World N° 1 in mould & tool steel • World N° 3 in crankshafts



# **Doosan Infracore**

- World N° 1 in compact loaders World N° 1 in attachments
- World N° 1 in portable air N° 1 in China:
- 22000 excavators sold in 2010







# Doosan Infracore **Construction Equipment**

We have been building a global production and business network since 1990 to become one of the world's foremost construction equipment manufacturers. In addition to operating large-scale factories worldwide, we have also established sales subsidiaries, branches and a dealership network all over the globe, making us a truly global player in every respect.



# TAKE A TOUR UNRIVALLED PRODUCTIVITY AND DURABILITY Reinforced castings and forged steel pivot points Large, robust boom and Joystick and switches integrated in the control stand for precise operation. All switches grouped together and ergonomically positioned to the right arm cylinders for smooth, Spacious, newly designed, pressurised ROPS cab with low noise and vibration powerful operation Jog shuttle switch to control various machine functions Fully adjustable heated air suspension seat as standard All-round visibility with better view through the rear and right windows and the large sun roof Reinforced heavy-duty arm and boom to withstand high impact materials and ensure high durability Rear camera and large side mirrors Air conditioning with climate control MAXIMUM EFFICIENCY New work lights with improved illumination (standard: 2 front frame, 4 front & 2 rear cab-mounted, 2 boom mounted and 1 rear side) Two-piece boom available for improved working range Extra durable cast counterweight and robust steel panels and engine hood Massive maximum bucket Large and flat windows for extra visibilit and arm digging forces of 11.1 and 7.7 ton • Easy access to all maintenance components High track option available for • Maintenance data available directly from control special application • Fuel pre-filter with water separator • PC access for maintenance and repairs Self-diagnosis function **SOLID STRENGTH** • Reliable Doosan parts Very robust dozer blade available Heavy-duty X-shaped undercarriage with integrated track spring and idler plus durable box section track frame • Battery cut-off switch and increased capacity as an option (100 Ah) • Undercarriage narrow / standard: 2.49 / 2.80 m (DX160LC-3) •Increased speed and tractive force on any terrain DX140LC-3

# Top performance and fuel efficiency

# **Expect the best performance from your machine**

The DX140LC-3 & DX160LC-3 take even the heaviest tasks in their stride with efficient, dependable performance that saves you time and money:

 Improved hydraulic system using the engine power more effectively, maximising pump output and offering more comfort, smoothness and accuracy

• Increased digging power, lifting capacities and traction force combine for performance you can rely on day after day

• Improved fuel efficiency means you can keep costs down and reduce the environmental impact

# EFFICIENT MANAGEMENT OF FUEL AND HYDRAULICS

## "Common Rail" Doosan DL06K engine

The heart of the DX140LC-3 & DX160LC-3 is a powerful DOOSAN DL06K 6 cylinder engine, carefully designed with common rail injection and 4 valves per cylinder. The engine delivers 82 kW (109 HP / 111 PS) at only 1850 rpm. Powerful torque allows efficient use of the hydraulic system and faster working cycles.

Already known for its outstanding reliability, the Doosan engine has been optimised for the DX140LC-3 & DX160LC-3 and is now compliant with the Stage IIIB European regulations using EGR (Exhaust Gas Recirculation) and DPF (Diesel Particulate Filter). In combination with the e-EPOS electronic control system, it offers the ultimate in power delivery and fuel economy.

### Wastegate turbocharger

Allows diverting of exhaust gases away from the turbine wheel to better regulate max. boost pressure & protect the engine. It also results in less lag time before turbo begins to spool/create boost maximizing torque, plus reduce wear in high rpm & low load conditions. Turbocharger increases the density of the air, enabling the engine to produce more power with few effects from altitude.



# ADVANCED TECHNOLOGY FOR OPTIMUM POWER MANAGEMENT

## e-EPOS system (Electronic Power Optimising System)

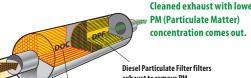
If the engine is the heart of the excavator, the e-EPOS is its brain. It provides a perfectly synchronised communication link between the engine's ECU (Electronic Control Unit) and the hydraulic system. A CAN (Controller Area Network) system enables a constant flow of information between the engine and hydraulic system, ensuring power is delivered exactly as needed.

### Simple and efficient

- Choice between 4 power modes and 4 working modes guarantees optimum performance in all conditions
- Proportional auxiliary control for attachments
- · Regulation and precise control of the flow rate required by the work
- Self-diagnosis function allows technical problems to be resolved quickly and efficiently
- Operational memory provides a graphic display of the machine status
- · Maintenance and oil change intervals can be displayed

### EGR with diesel particulate filter

EGR, which requires enhanced cooling capacity, reduces NOx by recirculating exhaust back into the engine. This dilutes the amount of oxygen in the combustion chamber and lowers the combustion peak temperature.



PM (Particulate Matter)

concentration goes in.

**∷** Exhaust

- Auto-idle function enables fuel saving (lowered from 1000 to 800 rpm)
- New electronic fan clutch optimizes cooling for more fuel savings
- Eco gauge: monitors fuel consumption to maintain economic
- Improved Main Control Valve (MCV) performance reduces energy loss
- · Additional sensor allows a more efficient selection of flow/pressure/rpm according to load requirements

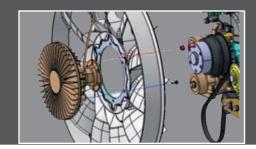
The main hydraulic pumps have an increased capacity of 2 x 114 l/min, reducing cycle times for heightened productivity. A high capacity gear pump improves pilot line efficiency.



The ECO gauge shows the average fuel efficiency for 1 minute's operation. The ECO symbol changes from green to amber, red and grey colour to show the workload when



For optimum cooling, fan speed is controlled electrically by a fan clutch, resulting in lower fan noise and better fuel efficiency.





- New 6 cylinder engines: up to 17.5% reduced fuel consumption according to power mode
- Productivity: side lifting capacity at 6 m reach and 3 m height: DX140LC-3: 2.04 t DX160LC-3: 2.92 t
- Excavation: max. bucket digging force: 11.1 t
- Traction: max. drawbar pull: DX140LC-3: 12.4 t DX160LC-3: 20.5 t
- Size: Ideal dimensions and working range

# The ideal workspace — designed around you

The DX140LC-3 & DX160LC-3 are designed to provide you with the best possible working conditions. The sophisticated pressurised ROPS cab is ISO-certified for your safety. Its spacious interior offers a fully adjustable, heated air suspension seat. Comfortably seated, you have easy access to several storage compartments and a clear all-round view of the worksite. Noise and vibration levels have been reduced while air conditioning and automatic climate control allow you to keep working for hours on end without feeling tired.



## Heated air suspension seat (standard)

As well as being adjustable and offering lumbar support, the seat has an air suspension system to reduce vibrations. It also features a button to activate the seat heating system. A storage box has been placed under the seat for extra convenience.



Plenty of storage space means you can keep all your personal belongings within reach. The new cab contains 7 storage compartments including one hot/cool box (linked to the HVAC system).



# Air conditioning with climate control

The electronically controlled air conditioning system features 5 different operating modes allowing the operator to adjust the air flow to suit conditions. A recirculated air function



## MP3/USB radio and USB port

A USB port (standard) allows connection of an MP3 player (MP3/USB radio with CD player optional).



# Maximum controllability for enhanced productivity

Doosan's unique new jog shuttle switch gives you easy, precise control over all machine functions. Using highly sensitive joysticks and clear controls positioned for convenient access, you are able to work safely and confidently with minimum effort. Proportional auxiliary flow means that the excavator's huge power is matched by smooth, confident manoeuvres, whether you are digging or loading a dump truck. Swing torque has been increased while the speed of light-load operations such as grading has also been improved due to the larger hydraulic flow volume. The highest standards of efficiency are just a finger's reach away.



- Power mode and Work mode
- Auto-idle / Buzzer Stop
- · Adjustments of rpm, hydraulic flow and pressure for attachments
- Rear view camera
- Multimedia: video: AVI (DivX®), MP4, WMV - audio: MP3
- Menu change or selection

# Colour LCD monitor panel

The upgraded 7" TFT LCD panel features a day and night display and has been relocated within the operator's line of sight. The monitor is userfriendly and gives full access to machine settings and maintenance data. Any abnormality is clearly displayed on the screen, allowing you to work safely and confidently with an accurate overview of all conditions. All functions are totally controllable, directly via the screen or using the Jog shuttle switch.



### 4 Work modes to suit your application

- 1-way mode and 2-way mode
- · Digging mode and lifting mode

### 4 Power modes for maximum efficiency

- · Power plus mode
- Power mode
- Standard mode
- Economy mode

## Gauges

- Engine coolant and hydraulic oil temperatures
- ECO symbol: changes colour when operating conditions change (idle, normal or loading)
- ECO gauge: shows the average fuel efficiency for 1 minute of operation
- · Warning symbols





4 Power modes



Auto-idle



Monitoring

User menu

• A rear view camera shows you a clear

view of what's happening behind

the machine. A side view camera is also available as an option for jobs

standard, greatly enhancing safety on

• Large side mirrors improve all-round

visibility (ISO compliant)

requiring extra safety measures • Cab and boom lights are fitted as

Service menu



Other standard safety features

include: automatic overheating

prevention, low oil pressure

sensor, engine emergency

cut-off switch, auxiliary mode

control system malfunctions),

An optional travel/swing alarm

overload warning device.

switch (to stop the pump if the





Attachment presets Filter/oil information Anti-theft protection



Simple operation

• "Short stroke" joysticks enable easy, precise control of all operations

Excellent digging power performance provides quick cycle times and efficient extraction of hard

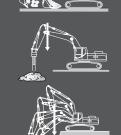
or compacted material.

- A thumb wheel switch and buttons on the joysticks allow proportional control of attachments such as grabs, crushers and grapples as well as control of rotating attachments
- · A straight travel pedal can be installed to facilitate operation when moving in a straight line, to avoid having to use the conventional 2 pedals



- Automatic travel speed function
- Activation of the power boost control system increases digging power by 10%
- A one-touch deceleration button immediately reduces engine speed to
- Auto-idling starts after 4 seconds at low rpm. This decreases fuel consumption and reduces noise levels in the cab
- Jog shuttle dial for engine rpm

- The intelligent floating boom mode allows the boom to move up and down freely when external force is applied.
- The breaker mode restricts the boom to downward movement only. This means that the breaker can be operated using only the weight of the work group on the front, without additional force. The breaker remains in constant contact with the object. The result is reduced shock and vibration and longer breaker service life.
- During truck loading, the lowering of the boom can be controlled without hydraulic pump flow discharge. This increases productivity and fuel efficiency.



is also available.

# **Uncompromised quality and total customer support**

# Designed for long-term all-round heavy duty

In your profession you need equipment you can depend on. At DOOSAN we use highly specialised design and analysis tools to make sure our machines are as robust and durable as can be. Our materials and structures undergo stringent testing for strength and resilience in the most extreme conditions.

## **RESILIENT CHAIN FOR TOP CLASS RELIABILITY**

The DX140LC-3 & DX160LC-3 are fitted with the same super-strong chain. The 21.6 cm link pitch, 4.7 cm pin diameter and heavy-duty running gear are ideally suited for long, trouble-free service in the roughest conditions.

• Track chains: the sealed and lubricated track chains are specifically designed for better pin and bushing retention. Exclusive heat treatment gives the links a consistent surface and strong core hardness, enhancing their durability



For special application, a high track undercarriage is also



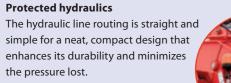
The optional rubber pad contains a heavy duty steel grouser plate within its structure, and is covered with a hardwearing rubber compound.



### Strengthened boom

Finite Element Analysis (FEA) has been used to calculate the best load distribution throughout the boom structure. Combined with increased material thickness, this means that element fatigue is limited and both reliability and component life are increased.

Cast elements and reinforcements have been added to give the arm assembly greater strength and a longer lifetime. The arm centre and end boss have been strengthened and reinforced bars added to better protect the base of the arm.



## **Extra-strong X-chassis**

The X-shaped undercarriage has been designed using Finite Element Analysis and 3D computer simulation to ensure optimum structural integrity and durability. The swing gear is solid and stable.





The sprocket is deep induction hardened and the depth pattern on the entire tooth profile is optimised for long-lasting service. Cast steel sprockets guarantee the highest resistance and durability even in the most severe applications. The sprocket tooth shape has been redesigned to prevent popping and increase component life.



The track spring and idler have been joined together for long-lasting performance and convenient maintenance. A new seal and cylinder body rod have been used to avoid leakage. Special heat treatment ensures optimum hardness and long-lasting resistance



For long-term dependability in all conditions, the chain is composed of sealed, self-lubricating links which are isolated from all external contamination. The tracks are locked by mechanically bolted pins. In areas subjected to great stress, the track link thickness has been



tough working environments.

The heavy-duty undercarriage provides excellent

stability and durability. It is designed to excel in

- 1 Large reinforced covers protect the dozer and stabilizer cylinders.
- **2** The shape of the dozer blade is designed to facilitate pulling and mixing of materials.
- 3 Dozer forward design, large working angle and reinforced components to ensure optimum stability when lifting or while working on sloped terrain.



A cast counterweight minimises deformation resulting from external impact. Operating stability has been increased by use of a low centre of gravity design. All external compartment panels are made of steel for extra



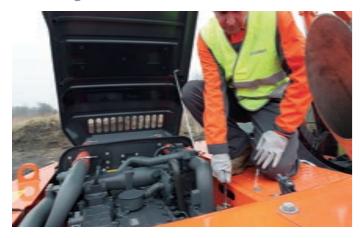


A highly lubricated metal is used for the boom pivot in order to increase the component lifetime and extend the greasing intervals. A polymer shim is added to the bucket pivot to maintain precise control over the equipment and extend greasing intervals.



# More value – less maintenance

Short maintenance operations at long intervals mean you can depend on your equipment being available on site when it's needed. Our machines are designed for simple routine maintenance, while skilled Doosan technicians are available to provide extra support when you need it. You can choose the package you need from a broad range of service agreements to get the most out of your machine. Uptime, productivity and residual value are all maximised, making these excavators an economical and rewarding choice.



## Maintenance access made simple

- Large handrails are installed along with anti-slip steps and plates, for safer, easier access to the engine compartment
- The cab's air conditioning filter is lockable and placed on the side of the cab for easy access
- A battery cut-off switch makes it easy to disconnect the battery during long-term storage
- The hour meter display can be easily checked from ground level
- Cock valves have been fitted on the pre-filter piping line and fuel tank drain piping to make servicing easier and prevent pollution from leakage







# Access to components Engine can be easily re Access to the various ra

- Engine can be easily reached via the large steel top panel
- Access to the various radiators and filters is very easy, making routine maintenance easier





# **Efficient air filtering**

The large capacity forced air cleaner removes over 99% of airborne particles, while the pre-cleaning system uses centrifugal force to eliminate dust. An oil-washed air cleaner is also available as an option.



### Protective oil return filter

The protection of the hydraulic system is made more effective by the use of glass fibre technology in the main oil return filter.
With more than 99.5% of foreign particles filtered out, the oil change interval is extended.



### **Engine oil filter**

The engine oil filter offers a high level of filtration allowing a long interval between changes. It is easy to access and is positioned to avoid contaminating the surrounding environment.



## el pre-filter with water separator sensor

High efficiency fuel filtration is attained by the use of multiple filters. These include a fuel pre-filter fitted with a water separator that removes moisture, dirt and debris from the fuel. A warning sensor is added to each fuel filter to indicate when water draining is required.

pump pressures and engine speed.

for analysis.

This information can be saved and printed



environment and convenient

access.

When the level of soot is too

high, a warning symbol alerts the operator that he can activate

regeneration at any time.

# **Technical specifications**



# \* Engine

### Model

Doosan DL06K

4-Cycle Water-Cooled, Turbocharged, Common Rail Direct Injection, Exhaust Gas Recirculation Diesel Particulate Filter (DPF)

# No. of cylinders

6

## Rated power

82 kW (111 PS) at 1850 rpm (DIN 6271) 82 kW (109 HP) at 1850 rpm (SAE J1995) 80 kW (107 HP) at 1850 rpm (SAE J1394)

### • Max. torque at 1400 rpm

49 kgf/m (530 Nm)

### • Idle (low - high)

800 [± 20] - 1950 [+25/-50] rpm

## Piston displacement

5890 cm<sup>3</sup>

### Bore x stroke

100 mm x 125 mm

### Starter

24 V / 6.0 kW

## • Batteries – Alternator

2 x 12 V, 100 Ah - 24 V, 80 A

# Air filter

Double element and pre-filtered dust separator with automatic dust evacuation.

# \* Hydraulic system

The brain of the excavator is the e-EPOS (Electronic Power Optimizing System). It allows the efficiency of the hydraulic system to be optimised for all working conditions and minimises fuel consumption. The e-EPOS is connected to the engine's electronic control unit (ECU) via a data transfer link to harmonise 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
- Cross-sensing pump system for fuel savings
- Auto deceleration system
- · Four operating modes, four power modes
- Button control of flow and pressure in auxiliary hydraulic circuits
- · Computer-aided pump flow control

# • Maximum system pressure

Implement (boom/arm/bucket):

 Work, travel:
 330 kg/cm² [+10/0]

 Rotation:
 275 kg/cm²

 Power:
 350 kg/cm² [+10/0]

# \* Pumps

Pump	Туре	Displacement (cm³/rev)	Max. flow @ 1850 rpm (l/min)	Relief valve pressure (kgf/cm²)
Main (2)	Tandem, Axial piston	2 x 61.6	2 x 114	-
Pilot	Gear	15.0	27.7	40.0

# \* Weight

	Shoe width (mm)	Operating	g weight (t)	Ground press	sure (kgf/cm²)
		DX140LC-3	DX160LC-3	DX140LC-3	DX160LC-3
	600 (Std)	14.4	15.8	0.36	0.38
	500	14.1	15.6	0.42	0.45
Triple grouser	700	14.5	16.0	0.31	0.33
	800	-	16.2	-	0.30
	900	-	16.4	-	0.26
Rubber pads	500	14.0	-	0.41	-

### \* Undercarriage

Very robust construction throughout. All welded structures designed to limit stresses. High-quality, durable materials. Lateral chassis welded and rigidly attached to undercarriage. Track rollers lubricated for life. Idlers and sprockets fitted with floating seals. Track shoes made of induction-hardened alloy with triple grouser. Heat-treated connecting pins. Hydraulic track adjuster with shock-absorbing tension mechanism.

# • Number of rollers and track shoes per side DX140LC-3 / DX160LC-3 Upper rollers (standard shoe): 1 / 2

Lower rollers:	7/7
Number of links & shoes per side:	46 / 44
Overall track length:	3755 mm / 3968 mm

# \* Hydraulic cylinders

Piston rods and cylinder bodies of high-strength steel. Shock-absorbing mechanism fitted in all cylinders for shock-free operation and extended piston life.

Cylinders	Quantity	Bore x rod diameter x stroke (mm)
Boom	2	110 x 75 x 1085
Arm	1	115 x 80 x 1108
Bucket	1	100 x 70 x 900
Two-piece boom, boom	2	110 x 75 x 940
Two-piece boom, arm	1	115 x 80 x 1068
Two-piece boom	1	140 x 85 x 720

# \* Swing mechanism

- High-torque, axial piston motor with 2-stage planetary reduction gear bathed in oil
- Swing circle: single-row, shear type ball bearing with inductionhardened internal gear
- · Internal gear and pinion immersed in lubricant

### · Max. swing speed

(Eff.=98%) 0 to 11 rpm

## Max. swing torque

(Eff.=78%) 3720 kgf/m

## \* Drive

Each track is driven by an independent, high-torque axial piston motor through a planetary reduction gearbox. Two levers / foot pedals guarantee smooth travel with counter-rotation on demand.

• Travel speed (low - high)	DX140LC-3 / DX160LC-3
	3.0 - 5.0 km/h / 2.5 - 4.0 km/h
Maximum traction	DX140LC-3 / DX160LC-3
	67 12/1+/125 205+

# Maximum gradeability

35° / 70%

# \* Fluid capacities

### Fuel tank

265 I

### Cooling system (radiator)

21 l

## • Hydraulic oil tank

150 l

Engine oil

# 25 |

Swing drive

### 5 I

• Travel device

#### 2 x 3 l

# \* Environment

Noise levels comply with environmental regulations (dynamic values).

#### Noise level LwA

Guaranteed - measured: 101 dB(A) - 100 dB(A) (2000/14/EC)

## Operator LpA

70 dB(A) (ISO 6396)

#### \* Buckets

	DX140LC-3   Standard track 2.59 m / rubber pads track 2.49 m								DX160LC-3 Standard track 2.80 m / narrow track 2.59 m										
Bucket				Woight		oom: 4.6	m		piece 4.98 m	Bucket	Capacity (m³)	Wid (m	dth m)	Weight	В	oom: 4.6	m		-piece : 4.98 m
Type	SAE	side	side		Arm:			Arm: 2.10 m	Arm: 2.50 m	Туре	SAE	With side cutters	W/O side cutters	(kg)	Arm: 2.10 m	Arm: 2.50 m	Arm: 3.00 m	Arm: 2.10 m	Arm: 2.50 m
	0.24	534	464	272	A/A	A/A	A/A	A/-	A/-		0.24	534	464	272	A/A	A/A	A/A	A/A	A/A
	0.39	820	736	338	A/A	A/A	A/A	A/-	A / -		0.39	820	736	338	A/A	A/A	A/A	A/A	A/A
	0.45	911	821	376	A/A	A/A	A/A	A/-	A / -		0.45	911	821	376	A/A	A/A	A/A	A/A	A/A
GP	0.51	991	907	389	A/A	A/A	A/B	A/-	B/-	GP	0.51	991	907	389	A/A	A/A	A/B	A/A	A/B
	0.59	1081	997	408	A/A	B/B	C/C	B/-	C/-		0.59	1081	997	408	A/A	A/A	A/B	A/B	A/C
	0.64	1167	1083	431	A/B	B/C	C/C	C/-	D/-		0.64	1167	1083	431	A/A	A/B	B/C	A/C	B/D
	0.76	1339	1255	479	C/C	C/D	D/D	D/-	D/-		0.76	1339	1255	479	A/B	A/C	B/D	A/D	B/D
	0.42	827	762	456	A/A	A/A	A/A	A/-	A / -		0.42	827	762	456	A/A	A/A	A/A	A/A	A/A
HD	0.49	913	848	491	A/A	A/A	B/B	A/-	B/-	HD	0.49	913	848	491	A/A	A/A	A/B	A/A	A/B
	0.54	981	916	511	A/A	B/B	C/C	B/-	C/-		0.54	981	916	511	A/A	A/B	B/C	A/B	B/C

A: Suitable for materials with a density less than or equal to 2100 kg/m<sup>3</sup> B: Suitable for materials with a density less than or equal to 1800 kg/m<sup>3</sup>

C: Suitable for materials with a density less than or equal to 1500 kg/m³D: Suitable for materials with a density less than or equal to 1200 kg/m³

Based on ISO 10567 and SAE J296, arm length without quick-coupler and without dozer. Shoe: 600 mm (except rubber pads: 500 mm)

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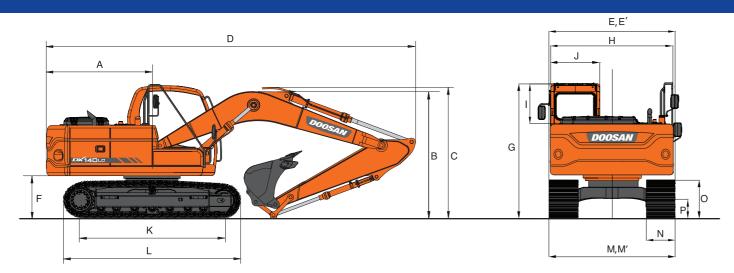
# \* Digging forces (ISO)

		Boom: 4600 mm Arm: 3000 mm Bucket: 0.45 m <sup>3</sup>	Boom: 4600 mm Arm: 2100 mm Bucket: 0.59 m³	Boom: 4600 mm Arm: 2500 mm Bucket: 0.51 m³
BUCKET	t	10.5 / 11.1	10.5 / 11.1	10.5 / 11.1
(Normal/Press. Up)	kN	102.9 / 108.8	102.9 / 108.8	102.9 / 108.8
ARM	t	5.6 / 6.0	7.2 / 7.7	6.2 / 6.5
(Normal/Press. Up)	kN	54.9 / 58.8	70.6 / 75.5	60.8 / 63.7

16

# **Working range**



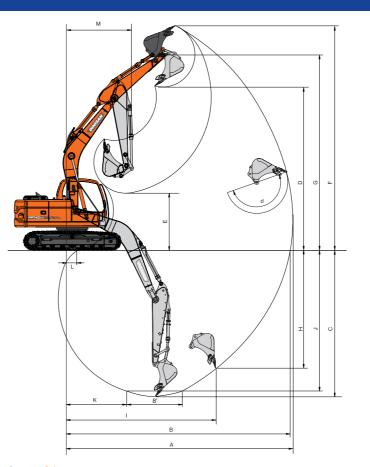


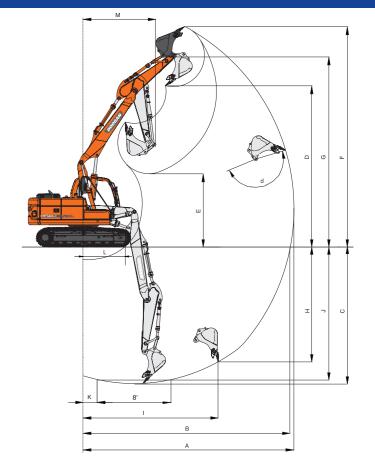
# **\*** Dimensions

				X140LC	-3				DX160LC	-3		D)	(160LC-3	НТ
	Boom length - mm	One-piece boom: 4600 Two-piece b				One-pi	iece boon	n: 4600		ce boom: 80	One-piece boom: 4		n: 4600	
	Arm length - mm	3000	2100	2500	2100	2500	3000	2100	2500	2100	2500	3000	2100	2500
	Bucket capacity - m <sup>3</sup>	0.45	0.59	0.51	0.51	0.45	0.45	0.59	0.51	0.51	0.45	0.45	0.59	0.51
Α	Tail swing radius - mm	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200	2200
В	Shipping height (boom) - mm	3065	2480	2635	2615	2800	3055	2510	2675	2690	2845	2955	2410	2575
C	Shipping height (hose) - mm	3180	2640	2820	2840	3000	3150	2620	2800	2845	2970	3050	2520	2700
D	Shipping length - mm	7635	8045	7680	8045	7970	7700	7700	7700	8070	8025	7700	7700	7700
Е	Shipping width std mm	2590	2590	2590	2590	2590	2590	2590	2590	2590	2590	2800	2800	2800
E'	Shipping width narrow - mm	-	-	-	-	- 1	2490	2490	2490	2490	2490	-	-	-
F	Counterweight clearance - mm	894	894	894	894	894	1035	1035	1035	1035	1035	1190	1190	1190
G	Height over cab - mm	2773	2773	2773	2773	2773	2914	2914	2914	2914	2914	3068	3068	3068
Н	House width - mm	2540	2540	2540	2540	2540	2540	2540	2540	2540	2540	2540	2540	2540
-	Cab height above house - mm	1045	1045	1045	1045	1045	1045	1045	1045	1045	1045	1045	1045	1045
J	Cab width - mm	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010
K	Tumbler distance - mm	3035	3035	3035	3034	3034	3180	3180	3180	3180	3180	3180	3180	3180
L	Track length - mm	3755	3755	3755	3755	3755	3968	3968	3968	3968	3968	3968	3968	3968
М	Undercarriage width std - mm	2590	2590	2590	2590	2590	2800	2800	2800	2800	2800	2800	2800	2800
M'	Undercarriage width narrow - mm	-	-	-	-	-	2490	2490	2490	2490	2490	-	-	-
Ν	Shoe width std mm	600	600	600	600	600	600	600	600	600	600	600	600	600
0	Track height - mm	794	794	794	794	794	917	917	917	917	917	1020	1020	1020
Р	Ground clearance - mm	410	410	410	410	410	455	455	455	455	455	608	608	608

# **\*** Component weights

ltem	unit	DX140LC-3	DX160LC-3	DX160LC-3 HT	Remarks
Upper structure without front	kg	6611	6611	6611	without counterweight
Counterweight	kg	2200	2200	2200	
Lower structure assembly Std. / narrow	kg	5091 / -	6465 / 6390	6725 / -	
Front assembly	kg	2676	2676	2676	
• Boom 4.6 m	kg	778	778	778	including bushing
• Arm 3.0 m	kg	469	469	469	including bushing
• Bucket 0.45 m³	kg	376	376	376	
Boom cylinder (each)	kg	106	106	106	
Arm cylinder	kg	143	143	143	
Bucket cylinder	kg	89	89	89	
Dozer blade (2590 mm)	kg	619	847	-	600 mm shoe
Dozer blade cylinder (each)	kg	70	90	-	
Two-piece boom - upper / lower	kg	592 / 384	592 / 384	-	
Two-piece boom cylinder	kg	150	150	-	
Arm 2.1 m / 2.5 m	kg	374 / 418	374 / 418	374 / 418	
Dozer blade 2490 mm	kg	606	-	-	500 mm shoe
Dozer blade 2690 mm	kg	632	-	-	700 mm shoe





# \* Working range

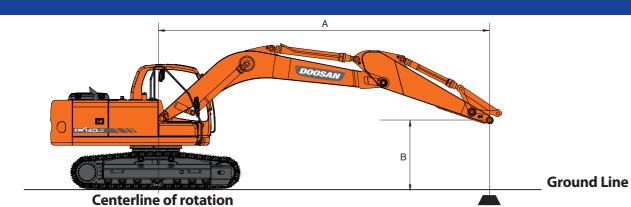
			ı	OX140LC	-3			ı	X160LC	3		DX160LC-3 HT		
	Boom length - mm	One-piece boom: 4600				Two-piece boom: 4980		One-piece boom: 4600			ce boom: 80	One-pi	iece boon	n: 4600
	Arm length - mm		2100	2500	2100	2500	3000	2100	2500	2100	2500	3000	2100	2500
	Bucket capacity - m <sup>3</sup>		0.59	0.51	0.51	0.45	0.45	0.59	0.51	0.51	0.45	0.45	0.59	0.51
Α	Max. digging reach - mm	8665	7815	8285	8260	8720	8665	7815	8285	8260	8720	8665	7815	8285
В	Max. digging reach (ground) - mm	8530	7660	8140	8115	8585	8530	7660	8140	8115	8585	8515	7645	8125
C	Max. digging depth - mm	6135	5235	5635	5295	5725	5995	5095	5495	5155	5585	5840	4940	5340
D	Max. loading height - mm	6440	5865	6315	6395	6855	6580	6005	6455	6535	6995	6735	6165	6610
Ε	Min. loading height - mm	1725	2575	2185	3070	2715	1865	2715	2325	3210	2855	2020	2870	2480
F	Max. digging height - mm	8745	8150	8660	8730	9235	8885	8290	8800	8870	9375	9040	8445	8955
G	Max. bucket pin height - mm	7655	7080	7535	7615	8075	7795	7225	7675	7755	8215	7950	7380	7830
Н	Max. vertical wall depth - mm	4685	3710	4495	4110	4680	4545	3570	4355	3970	4540	4390	3415	4200
- 1	Max. radius vertical - mm	5970	5745	5605	5870	5730	5970	5745	5605	5870	5730	5970	5745	5605
J	Max. digging depth (8' level) - mm	5890	4910	5395	5180	5615	5750	4770	5255	5040	5475	5595	4615	5100
K	Min. radius 8´ line - mm	1825	1805	1915	910	910	1825	1805	1915	910	910	1825	1805	1915
L	Min. digging reach - mm	-225	955	325	2025	1855	-225	955	325	2025	1855	-225	955	325
М	Min. swing radius - mm	2625	2285	2380	2775	2970	2625	2285	2380	2775	2970	2625	2285	2380
d	Bucket angle - °	174	174	174	174	174	174	174	174	174	174	174	174	174



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# **Lifting capacities**





# **DX140LC-3 – Standard configuration**

Standard track width: 2590 mm • Boom: 4600 mm • Arm: 2500 mm • W/O Bucket • Shoe: 600 mm • Counterweight: 2200 kg

Units: 1000 kg

A (m)	Dozer	3.	.0	4.5		6	.0		Max. lift	
B (m)	Dozei	<sup>1</sup>	( <b>⊆</b> e	<b>o</b>	Œ€	ď	Œ€	e e	( <mark>id</mark> e	A (m)
7.5	Without							*2.42	*2.42	4.34
7.5	Dozer up							*2.42	*2.42	4.34
6.0	Without							*2.04	*2.04	5.91
6.0	Dozer up							*2.04	*2.04	5.91
4.5	Without			*3.34	*3.34	*3.20	2.15	*1.94	1.70	6.81
4.5	Dozer up			*3.34	*3.34	*3.20	2.27	*1.94	1.80	6.81
3.0	Without	*5.40	*5.40	*4.37	3.27	3.23	2.06	*1.95	1.47	7.30
5.0	Dozer up	*5.40	*5.40	*4.37	3.44	3.78	2.18	*1.95	1.56	7.30
1.5	Without	*8.89	5.53	4.90	3.00	3.11	1.95	*2.08	1.37	7.45
1.5	Dozer up	*8.89	5.84	*5.71	3.17	3.65	2.07	*2.08	1.47	7.45
	Without	*8.35	5.08	4.66	2.79	3.00	1.85	2.24	1.38	7.29
0 (Ground)	Dozer up	*8.35	5.39	5.48	2.96	3.54	1.97	2.34	1.48	7.29
1.5	Without	9.40	4.98	4.55	2.69	2.94	1.80	2.47	1.52	6.79
-1.5	Dozer up	*10.12	5.29	5.37	2.87	3.49	1.92	*2.85	1.62	6.79
2.0	Without	9.49	5.05	4.56	2.71			3.07	1.88	5.87
-3.0	Dozer up	*10.39	5.36	5.38	2.88			3.63	2.01	5.87
4 E	Without	*7.93	5.28					5.20	3.11	4.25
-4.5	Dozer up	*7.93	5.59					5.35	3.30	4.25

# **DX140LC-3 - Option 1**

Standard track width: 2590 mm • Boom: 4600 mm • Arm: 3000 mm • W/O Bucket • Shoe: 600 mm • Counterweight: 2200 kg

Units: 1000 kg

A (m)	Dozer	3.	.0	4	.5	6	.0		Max. lift	
B (m)	Dozei	in the second	<b>Ģ</b> a	e e	C <del>\$</del> s	e e	<b>(</b>	e e	<b>Ģ</b> a	A (m)
7.5	Without							*2.42	*2.42	4.34
7.5	Dozer up							*2.42	*2.42	4.34
6.0	Without							*2.04	*2.04	5.91
0.0	Dozer up							*2.04	*2.04	5.91
4.5	Without			*3.34	*3.34	*3.20	2.15	*1.94	1.70	6.81
4.5	Dozer up			*3.34	*3.34	*3.20	2.27	*1.94	1.80	6.81
3.0	Without	*5.40	*5.40	*4.37	3.27	3.23	2.06	*1.95	1.47	7.30
3.0	Dozer up	*5.40	*5.40	*4.37	3.44	3.78	2.18	*1.95	1.56	7.30
1.5	Without	*8.89	5.53	4.90	3.00	3.11	1.95	*2.08	1.37	7.45
1.5	Dozer up	*8.89	5.84	*5.71	3.17	3.65	2.07	*2.08	1.47	7.45
0 (Ground)	Without	*8.35	5.08	4.66	2.79	3.00	1.85	2.24	1.38	7.29
U (Ground)	Dozer up	*8.35	5.39	5.48	2.96	3.54	1.97	2.34	1.48	7.29
-1.5	Without	9.40	4.98	4.55	2.69	2.94	1.80	2.47	1.52	6.79
-1.5	Dozer up	*10.12	5.29	5.37	2.87	3.49	1.92	*2.85	1.62	6.79
-3.0	Without	9.49	5.05	4.56	2.71			3.07	1.88	5.87
-3.0	Dozer up	*10.39	5.36	5.38	2.88			3.63	2.01	5.87
-4.5	Without	*7.93	5.28					5.20	3.11	4.25
-4.5	Dozer up	*7.93	5.59					5.35	3.30	4.25

# DX140LC-3 - Option 2 Rubber pads

Standard track width: 2590 mm • Boom: 4600 mm • Arm: 2500 mm • W/O Bucket • Shoe: 500 mm Rubber • Counterweight: 2200 kg

Units: 1000 kg

A (m)	3.0		4.5		6.	.0	Max. lift			
B (m)	ď	<b>⊕</b>	<u> </u>	<del>(</del>	ď	C	ď	<b>(</b>	A (m)	
7.5							*2.75	*2.75	3.61	
6.0			*3.64	3.55			*2.16	*2.16	5.42	
4.5			*3.92	3.48	*3.19	2.16	*2.00	1.92	6.39	
3.0	*6.63	6.23	*4.92	3.28	3.63	2.09	*1.99	1.65	6.91	
1.5	*8.33	5.50	5.50	3.04	3.52	1.99	*2.11	1.54	7.07	
0 (Ground)	*7.16	5.21	5.30	2.86	3.44	1.91	*2.36	1.57	6.90	
-1.5	*10.34	5.19	5.23	2.81	3.41	1.89	*2.89	1.75	6.37	
-3.0	*9.80	5.30	5.29	2.86			4.07	2.26	5.37	

# DX140LC-3 - Option 3 Two-piece boom

Standard track width: 2590 mm • Boom: 2000 mm LB + 3350 mm UB • Arm: 2500 mm • W/O Bucket • Shoe: 600 mm • Counterweight: 2200 kg

A (m)	3.0		4.5		6.0		7.5		Max. lift		
B (m)	ů	( <del>c</del>	<sup>1</sup>	( <del>d</del> a	<del>-</del>	<b>(</b>	Ф	<b>(</b>	6	<b>G</b>	A (m)
7.5									*2.77	*2.77	4.43
6.0			*2.89	*2.89					*2.29	2.10	5.98
4.5			*3.37	*3.37	3.29	2.09			*2.13	1.62	6.88
3.0			*4.47	3.12	3.18	1.99			*2.12	1.39	7.36
1.5			4.75	2.83	3.04	1.86	2.15	1.31	2.15	1.31	7.50
0 (Ground)			4.54	2.65	2.94	1.77			2.19	1.32	7.34
-1.5	*7.41	4.82	4.47	2.59	2.90	1.73			2.41	1.46	6.85
-3.0	9.44	4.96	4.53	2.64					3.01	1.82	5.94

# **DX160LC-3 – Standard configuration**

Standard track width: 2800 mm • Boom: 4600 mm • Arm: 2500 mm • W/O Bucket • Shoe: 700 mm • Counterweight: 2200 kg

Units: 1000 kg

A (m)	Dozer	3	.0	4.	.5	6	6.0		Max. lift		
B (m)		r r	( <del>]</del> e	<sup>®</sup>	<b>(</b>	ű	(=)e	ь	(=de	A (m)	
7.5	Without							*2.51	*2.51	3.78	
7.5	Dozer up							*2.51	*2.51	3.78	
6.0	Without			*3.39	*3.39			*2.01	*2.01	5.50	
6.0	Dozer up			*3.39	*3.39			*2.01	*2.01	5.50	
4.5	Without			*3.71	*3.71	*3.08	2.99	*1.87	*1.87	6.44	
4.5	Dozer up			*3.71	*3.71	*3.08	*3.08	*1.87	*1.87	6.44	
3.0	Without	*6.42	*6.42	*4.68	4.52	*4.05	2.92	*1.87	*1.87	6.93	
3.0	Dozer up	*6.42	*6.42	*4.68	*4.68	*4.05	3.20	*1.87	*1.87	6.93	
1.5	Without	*7.45	*7.45	*5.84	4.27	4.15	2.82	*1.98	*1.98	7.06	
1.5	Dozer up	*7.45	*7.45	*5.84	4.67	*4.55	3.09	*1.98	*1.98	7.06	
_	Without	*6.89	*6.89	6.30	4.10	4.06	2.74	*2.23	*2.23	6.87	
0 (Ground)	Dozer up	*6.89	*6.89	*6.64	4.51	*4.94	3.02	*2.23	*2.23	6.87	
1.5	Without	*10.06	7.62	6.23	4.05	4.04	2.72	*2.76	2.54	6.32	
-1.5	Dozer up	*10.06	8.37	*6.80	4.45	*4.92	3.00	*2.76	*2.76	6.32	
2.0	Without	*9.03	7.75	*6.06	4.11			*4.08	3.30	5.29	
-3.0	Dozer up	*9.03	8.50	*6.06	4.51			*4.08	3.63	5.29	

# DX160LC-3 - Option 1 Narrow

Narrow track width: 2590 mm • Boom: 4600 mm • Arm: 2500 mm • W/O Bucket • Shoe: 600 mm • Counterweight: 2200 kg

Units: 1000 kg

A (m)	3.0		4.5		6	.0	Max. lift			
B (m)	r r	<b>(</b>	ď	<b>(</b> 49	<sup>6</sup>	( <b>⊈</b> e	ď	<b>(4</b> 9	A (m)	
7.5							*2.51	*2.51	3.78	
6.0			*3.39	*3.39			*2.01	*2.01	5.50	
4.5			*3.71	*3.71	*3.08	2.67	*1.87	*1.87	6.44	
3.0	*6.42	*6.42	*4.68	4.01	*4.05	2.60	*1.87	*1.87	6.93	
1.5	*7.45	6.83	*5.84	3.77	4.13	2.50	*1.98	1.97	7.06	
0 (Ground)	*6.89	6.56	6.26	3.61	4.04	2.42	*2.23	2.01	6.87	
-1.5	*10.06	6.55	6.20	3.56	4.02	2.40	*2.76	2.25	6.32	
-3.0	*9.03	6.68	*6.06	3.61			*4.08	2.92	5.29	

# DX160LC-3 - Option 2 Two-piece boom Narrow

Narrow track width: 2590 mm • Boom: 2000 mm LB + 3350 mm UB • Arm: 2500 mm • W/O Bucket • Shoe: 600 mm • Counterweight: 2200 kg

Units: 1000 kg

A (m)	3.0		4.5		6	.0	Max. lift			
B (m)	ď	<del>(</del>	ď	( <del>G</del> a	<sup>6</sup>	<b>Ģ</b>	<sup>®</sup>	( <del>-</del>	A (m)	
7.5			*2.74	*2.74			*2.57	*2.57	4.57	
6.0			*2.71	*2.71	*2.36	*2.36	*2.15	*2.15	6.06	
4.5			*3.20	*3.20	*3.17	2.67	*2.02	*2.02	6.92	
3.0			*4.26	3.95	*3.60	2.56	*2.01	1.84	7.38	
1.5			*5.46	3.66	4.09	2.44	*2.11	1.75	7.50	
0 (Ground)			6.16	3.48	3.99	2.35	*2.33	1.79	7.32	
-1.5	*7.26	6.34	6.10	3.43	3.96	2.32	*2.75	1.97	6.81	
-3.0	*9.38	6.48	6.17	3.49			*3.72	2.46	5.86	

- 1. Lifting capacities are in compliance with ISO 10567:2007(E).
- 2. The load point is at the end of the arm.3. \* = The nominal loads are based on hydraulic capacity.
- The nominal loads shown do not exceed 75% of tipping loads or 87% of hydraulic lifting capacity.
   For lifting capacity with bucket, simply subtract the actual weight of the bucket from the values.
- 6. The configurations indicated do not necessarily reflect the standard equipment of the machine.

: Rating over front ☐: Rating over side or 360°

# **Lifting capacities**



# **Standard and optional equipment**



# DX160LC-3 - Option 3 Two-piece boom

Standard track width: 2800 mm • Boom: 2000 mm LB + 3350 mm UB • Arm: 2500 mm • W/O Bucket • Shoe: 600 mm • Counterweight: 2200 kg

A (m)	Dozer	3.	.0	4.5		6.0		7	7.5		Max. lift		
B (m)		ď	<b>⊆</b> e	<del>U</del>	<b>(=</b> 9	<del>u</del>	<b>=</b> 9	ě.	( <del>d</del> e	ď	<b>(4</b> e	A (m)	
7.5	Without			*2.71	*2.71					*2.55	*2.55	4.57	
7.5	Dozer up			*2.71	*2.71					*2.55	*2.55	4.57	
6.0	Without			*2.70	*2.70	*2.34	*2.34			*2.13	*2.13	6.06	
6.0	Dozer up			*2.70	*2.70	*2.34	*2.34			*2.13	*2.13	6.06	
4.5	Without			*3.19	*3.19	*3.16	2.98			*1.99	*1.99	6.92	
4.5	Dozer up			*3.19	*3.19	*3.16	*3.16			*1.99	*1.99	6.92	
3.0	Without			*4.25	*4.25	*3.59	2.88			*1.98	*1.98	7.38	
3.0	Dozer up			*4.25	*4.25	*3.59	3.16			*1.98	*1.98	7.38	
1.5	Without			*5.45	4.15	4.10	2.75	*2.10	1.97	*2.08	1.97	7.50	
1.5	Dozer up			*5.45	4.55	*4.16	3.03	*2.10	*2.10	*2.08	*2.08	7.50	
	Without			6.18	3.97	4.00	2.65			*2.29	2.01	7.32	
0 (Ground)	Dozer up			*6.31	4.37	*4.64	2.93			*2.29	2.23	7.32	
-1.5	Without	*7.25	*7.25	6.12	3.91	3.97	2.62			*2.72	2.23	6.81	
-1.5	Dozer up	*7.25	*7.25	*6.62	4.32	*4.85	2.90			*2.72	2.47	6.81	
-3.0	Without	*9.37	7.56	6.19	3.97					*3.68	2.78	5.86	
-5.0	Dozer up	*9.37	8.30	*6.32	4.38					*3.68	3.07	5.86	

# DX160LC-3 HT - Standard configuration

Standard track width: 2800 mm • Boom: 4600 mm • Arm: 2500 mm • W/O Bucket • Shoe: 600 mm • Counterweight: 2200 kg

Units: 1000 kg

A (m)	3.0		4.5		6	.0	Max. lift		
B (m)	ď	<b>(</b>	<del>U</del>	( <del>G</del> e	ů	<b>(</b>	<b>6</b>	<b>(4</b> 9	A (m)
7.5							*2.51	*2.51	3.78
6.0			*3.39	*3.39			*2.01	*2.01	5.50
4.5			*3.71	*3.71	*3.08	2.99	*1.87	*1.87	6.44
3.0	*6.42	*6.42	*4.68	4.52	*4.05	2.92	*1.87	*1.87	6.93
1.5	*7.45	*7.45	*5.84	4.27	4.15	2.82	*1.98	*1.98	7.06
0 (Ground)	*6.89	*6.89	6.30	4.10	4.06	2.74	*2.23	*2.23	6.87
-1.5	*10.06	7.62	6.23	4.05	4.04	2.72	*2.76	2.54	6.32
-3.0	*9.03	7.75	*6.06	4.11			*4.08	3.30	5.29

# DX160LC-3 HT - Option 1

Standard track width: 2800 mm • Boom: 4600 mm • Arm: 3000 mm • W/O Bucket • Shoe: 600 mm • Counterweight: 2200 kg

Units: 1000 kg

A (m)	3.0		4.5		6	.0	Max. lift			
B (m)	ů	Œ€	<del>U</del>	( <del>- </del> e	<sup>8</sup>	Œ́a	ď	( <del>-</del> ]e	A (m)	
7.5							*2.23	*2.23	4.46	
6.0							*1.90	*1.90	5.99	
4.5			*3.17	*3.17	*3.04	3.03	*1.81	*1.81	6.86	
3.0	*5.26	*5.26	*4.16	*4.16	*3.71	2.94	*1.83	*1.83	7.32	
1.5	*8.49	8.09	*5.41	4.31	4.16	2.82	*1.95	*1.95	7.45	
0 (Ground)	*7.90	7.64	6.30	4.10	4.05	2.72	*2.21	2.08	7.27	
-1.5	*9.76	7.55	6.20	4.01	4.00	2.68	*2.71	2.29	6.75	
-3.0	*9.61	7.63	6.22	4.03			*3.89	2.85	5.80	
-4.5	*7.14	*7.14					*5.00	4.82	4.10	

- 1. Lifting capacities are in compliance with ISO 10567:2007(E).
- 2. The load point is at the end of the arm.
- \* = The nominal loads are based on hydraulic capacity.
- 4. The nominal loads shown do not exceed 75% of tipping loads or 87% of hydraulic lifting capacity.
- 6. The configurations indicated do not necessarily reflect the standard equipment of the machine.

5. For lifting capacity with bucket, simply subtract the actual weight of the bucket from the values.

: Rating over front ☐: Rating over side or 360°

# \* Standard equipment

DOOSAN DL06K Diesel engine combined with e-EPOS System

Common Rail direct injection, EU Stage IIIB compliant, EGR

Diesel particulate filter (DPF)

#### Auto-idle Hydraulic system

Boom and arm flow regeneration

Swing anti-rebound valves

Spare ports (valve)

One-touch power boost Breaker piping

Cylinder cushioning & contamination seals

Control of auxiliary hydraulic flow and pressure from the display panel

#### Cab & Interior

Roll Over Protective Structure (ROPS)

Pressurised, sound-insulated and CabSus mounted cab

Heated, adjustable air suspension seat with adjustable headrest and armrest

Jog shuttle switch with attachment management system Air conditioning with climate control

Pull-up type front window with sun roller blind and removable lower front window

Sliding left windows with lock

Ceiling light Intermittent upper windshield wiper

Multiple storage compartments (e.g. document holder under seat)

Rain visor

Flat, spacious, easy-to-clean floor

Cigarette lighter and ashtray Cup holder

Anti-theft protecti

Hot and cool box

Fuel control dial

7" (18 cm) LCD colour monitor panel Engine speed (RPM) control dial

Hydrostatic 2-speed travel system with manual or automatic shift

Automatic rear window defroster

4 operating modes & 4 working modes Radio-ready and remote radio ON/OFF switch

12 V power socket

Serial communication port for laptop PC interface

Adjustable PPC wrist control levers for arm, boom, bucket and swing, with sliding proportional control for attachments, auxiliary hydraulic buttons and one-touch

USB port & auxiliary input

Diesel particulate filter regeneration switch

Tool storage area
Travel pedals and hand levers

# Safety

# Boom and arm cylinder safety valves

Overload warning device

Large handrail and step

Rotating beacon Rear view camera

Punched metal anti-slip plates Hydraulic safety lock leve

Safety glass

Hammer for emergency escape

Right and left rearview mirrors

Emergency engine stop and hydraulic pump control switches Engine overheat and restart prevention system

Parking brake and cab swing lock pin

Reinforced cast steel pivot points

Upperstructure maintenance compartment doors and lockable fuel cap

Battery cut-off switch

Halogen work lights (2 front frame, 4 front cab-mounted, 2 rear cab-mounted,

Mirror on counterweight

#### Mono boom DX140LC-3 & DX160LC-3: 4600 mm - arm: 2500 mm Counterweight: 2200 kg

Auto shut-off fuel filler pump

Double element air cleaner

Fuel pre-filter with water separator sensor

Dust screen for radiator/oil cooler

Separated engine hoods with gas spring. DPF hood screwed & protected

Self-diagnostic function

Battery (2 x 12 V, 150 Ah), alternator (24 V, 80 A)

Remote greasing for swing circle and workgroup pivot points

### Guards for boom lights

#### Undercarriage Fixed undercarriage DX140LC-3: 2590 mm / DX160LC-3: 2800 mm

Hydraulic track adjuster

Normal track guards

Greased and sealed track links

600 mm triple grouser shoe

# \* Optional equipment

#### Cab & Interior

# MP3/USB radio or MP3/USB radio with CD playe

# Safety

FOGS cab - top and front cab guards (ISO 10262)

Front window upper and lower guards

Two-piece boom: 4980 mm with 2100 or 2500 mm arm

Mono-boom arms: 2100 mm or 3000 mm

Doosan buckets: full range of GP, HD & Rock buckets

Doosan breaker: DXB100H and Doosan quick-couplers Hydraulic piping for crusher, quick coupler, clamshell, tilting and rotating buckets

Additional filter for breaker piping

Floating boom function

Wiper for lower front window

Double pump flow

Water separator with heater Engine coolant heater

Plug heater Additional 12 V power socket

Straight travel pedal

Telescopic rotating beaco Bio oil

Automatic lubrication system Microphone

#### Alarm for travel & swing Alarm for travel

# Undercarriage

Narrow undercarriage DX160LC-3: 2590 mm DX140LC-3: 500 & 700 mm triple grouser shoe, 500 mm rubber pads

DX140LC-3: Dozer blade 2490, 2590 & 2690 mm

DX160LC-3: Dozer blade 2700, 2800, 2900, 3000 & 3100 mm. Not available on high track or narrow version.

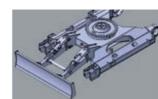
DX160LC-3: 500, 700, 800 & 900 mm triple grouser shoe

DX140LC-3: Rubber pads 500 mm



### High track (on DX160LC-3)

Ideal in forestry, recycling and demolition due to its higher ground clearance (15 cm).



For dozing and working on sloped terrains. It also increases stability when lifting.



A range of dependable new

Doosan buckets

Doosan buckets is available to cover several applications.



Rubber pads (on DX140LC-3)

Reduce noise and vibrations and help minimize damage on asphalt, pavement or any easily damaged



**Engine coolant heater** 

Improves start-up ability in extremely cold conditions by heating coolant and fuel.



#### Doosan breakers and auick-coupler

Doosan provides the tough, reliable equipment you need for demolition work.

Some of these options may be standard in some markets. Some of these options may not be available for certain markets. Please check with your local DOOSAN dealer for more information about availability or to adapt your machine to your application needs.



# **Doosan Infracore Construction Equipment**



**Finance** your ambitions



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# **Financial Solutions**

Doosan Infracore Financial Services (DI FS) is specialised in creating financing solutions to meet a wide variety of needs.

Our well-developed dealer network has the knowledge and experience to take the best care of our Doosan customers. No matter Contact your local dealer for more information. where you are, you'll get the service you expect - and can rely on!

- Complete parts & service support for all Doosan products
- Highest quality genuine parts
- Large, dedicated staff of factory-trained aftermarket professionals in the field



