DOOSAN





Maximum power: 115 hp Operating weight: 14.4 t Max. bucket capacity: 0.76 m³



Doosan Group - Building your tomorrow today

Be part of the great Doosan family

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

- With more than 37,500 employees in 38 countries, we are a major player in a variety of industries worldwide.
- A global leader in the Infrastructure Support Business (ISB), with 56 subsidiaries and 3,700 distributors worldwide.
- Dramatic growth over the past two decades, with an annual Doosan Group revenue rising from €2.4 billion in 1998 to €12.8 billion in 2016.

■ Doosan Group – a top player worldwide



Doosan Infracore

• Among the world's Top 5 manufacturers of construction equipment



Doosan Bobcat

- A leading company in the design, manufacture, marketing, distribution and service of small equipment and attachments for construction, agriculture, and landscaping
 World N° 1 in desample world N° 1 in heat market
- Leading position in the global compact equipment market
- N° 1 in North America for SSL, CTL and MEX



Doosan Heavy Industries &

- World N° 1 in desalination plant construction
 World N° 1 in heat recovery steam generator
- World N° 1 in mould & tool steel
- World N° 3 in crankshafts



Doosan Engineering & Construction

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

World N° 1 chemical process equipment products











Doosan Infracore Construction Equipment

Creating construction equipment for over 40 years

For over 40 years, we've been building a global production and business network to become one of the world's foremost construction equipment manufacturers.

A solid partner, close to you

A truly global player in every respect, we have large-scale factories, sales subsidiaries and dealers all over the world.



Doosan facilities in Europe

From machine manufacturer... to full solution provider

To ensure the highest trade-in and residual values, our parts and service support professionals maintain the performance, productivity and reliability that you expect of our products throughout their lifetime.

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

As your local specialist, your dealer ensures that you receive the maximum benefit from our integrated package. Plan ahead to ensure the success of your equipment!















Doosan approved Genuine parts attachments

Extension of warranty

Financial solutions

Maintenance contract

Telematics

Monitoring systems











■ Experience the Doosan product range!











Articulated Dump Trucks

Wheel Loaders

Wheeled Excavators

Mini Excavators

Crawler Excavators

Raise profits, productivity & fuel efficiency

► High productivity & low cost of ownership

Delivers higher productivity & reduced fuel consumption in an efficient & comfortable work environment.

Large, robust boom and arm cylinders for smooth, powerful operation. Advanced pin & bushing technology.

Productivity: State-of-the-art bucket and arm digging forces.

Safety: Rear camera and large side mirrors, powerful lighting, & anti-slip steps and platforms. Guard rails on upper structure.

⊗ Special applications: Two-piece boom and dozer blade configurations are ideally suited for special applications.

Additionally, rubber pads are available as option.



© Easy-to-use attachments: Set flow & pressure of the auxiliary lines directly from the control panel. Additionally, 10 pre-sets are available to record specific settings.

© Comfort: One of the most spacious cabs in the market, with low noise & vibration levels and excellent all-round visibility. Fully adjustable heated air suspension seat, air conditioning with climate control as standard.

> **⊙** Controllability: Exclusive jog shuttle switch, 4 work & 4 power modes, proportional control, user-friendly 7" TFT LCD colour monitor.

Power: Exceptionally powerful - with high torque at low revs - the Stage IV compliant Perkins engines are free from Diesel Particulate Filter (DPF) and associated regeneration system for more fuel efficiency. ,,,,,,,,,,,,,,

⊙ Efficient fuel management: A new SPC (Smart Power Control) system, combined with settable engine shut-off, provides an additional reduction of up to 3%.

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

Advanced filtration: Highest efficiency filters & cleaners remove water, dust & particles to protect your investment optimally.

Easy maintenance: Easy access to all compartments. Maintenance data directly available from control panel.

Our Undercarriage durability: Forged steel and deephardened top rollers - oil-lubricated rollers - heattreated sprockets - deep-hardened, heat-treated, grease lubricated & longer life track chains.



Rubberpads: Ideal for urban applications with their low ground disturbance, rubber pads are available as option.

Top performance and fuel efficiency



■ The power to raise productivity

The DX14oLC-5 takes even the heaviest tasks in its stride with efficient, dependable performance that saves you time and money:

- Improved hydraulic system uses 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
- · Greater fuel efficiency means you can keep costs down and reduce environmental impact









OPTIMISED POWER MANAGEMENT

The DX14oLC-5 is equipped with a Perkins engine. Famous for excellent fuel efficiency, reliability and long service life, it combines exceptional power output and high torque at low revs. Engine is fitted with common rail fuel injection combined with an wastegate turbocharger which increases the density of the air enabling the engine to produce more power.

Selective Catalytic Reduction (SCR) technology - combined with a Diesel Oxidation Catalyst (DOC) - ensures compliance with Stage IV regulations. As there is no need for a particulate filter, there is no need for regeneration.



If the engine is the heart of the excavator, the e-EPOS is its brain - providing 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 engine and hydraulic system, so that power is delivered exactly as needed.

EFFICIENT FUEL MANAGEMENT

- Choice between 4 power modes and 4 working modes guarantees optimum performance in all conditions
- SPC (Smart Power Control): reduces engine RPM during low load demand
 ensures pump torque control, thus ensuring fuel efficiency and low emissions
- Engine auto-shut-off: shuts down the engine after the machine has been idling for a specified time
- Electronic control of fuel consumption optimises efficiency
- Auto-idle function saves fuel
- Eco guidance in real time: eco gauge provides information about fuel consumption relative to machine performance in real-time. By trying to keep the right-hand LED bar from rising, the operator can teach himself how to save fuel and work efficiently
- For optimum cooling, fan speed is controlled by a viscous clutch resulting in a lower fan noise & better fuel efficiency

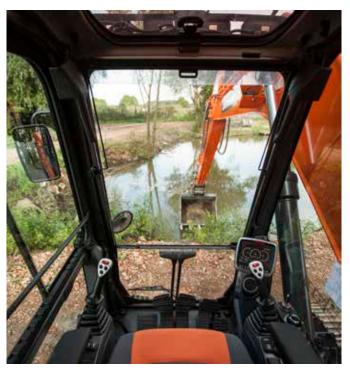


to spool/create boost maximizing torque, plus reduce wear in high rpm & low load conditions. Turbocharger increases the density of the air, enabling the engine to produce more powerwith few effects from altitude.

Operating in comfort

■ The ideal workspace – designed around you

The DX14oLC-5 is designed to provide you with the best possible working conditions. The pressurised 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.











Best-in-class operator environment

Doosan Crawler Excavators are powered by industry-leading engines that save on fuel and meet the latest Stage IV European regulations in addition to all noise regulations.

The low levels of cab vibration and noise provide exceptional operator comfort - and the cab air is filtered to ensure a healthy work environment.

Straight travel pedal

For straight machine movement – ensures comfort during on hill operation or front equipment combined movements such as boom/arm or boom/swing.

Two-way proportional pedal

For maximum comfort when operating attachments - operator can easily set his preference in the control panel to operate with the rollers on joystick or with the pedal.

Heated air suspension seat (standard)

In addition to being adjustable and providing lumbar support, the seat has an air suspension system to reduce vibrations. It also features a seat heating system (activated at the touch of a button). A storage box has been placed under the seat for extra convenience.

Air conditioning with climate control

The operator can choose from 5 different modes to regulate the airflow, while the system adjusts the air temperature & fan speed to maintain the operator's selected temperature. A recirculated air function is also available.

MP3/USB radio

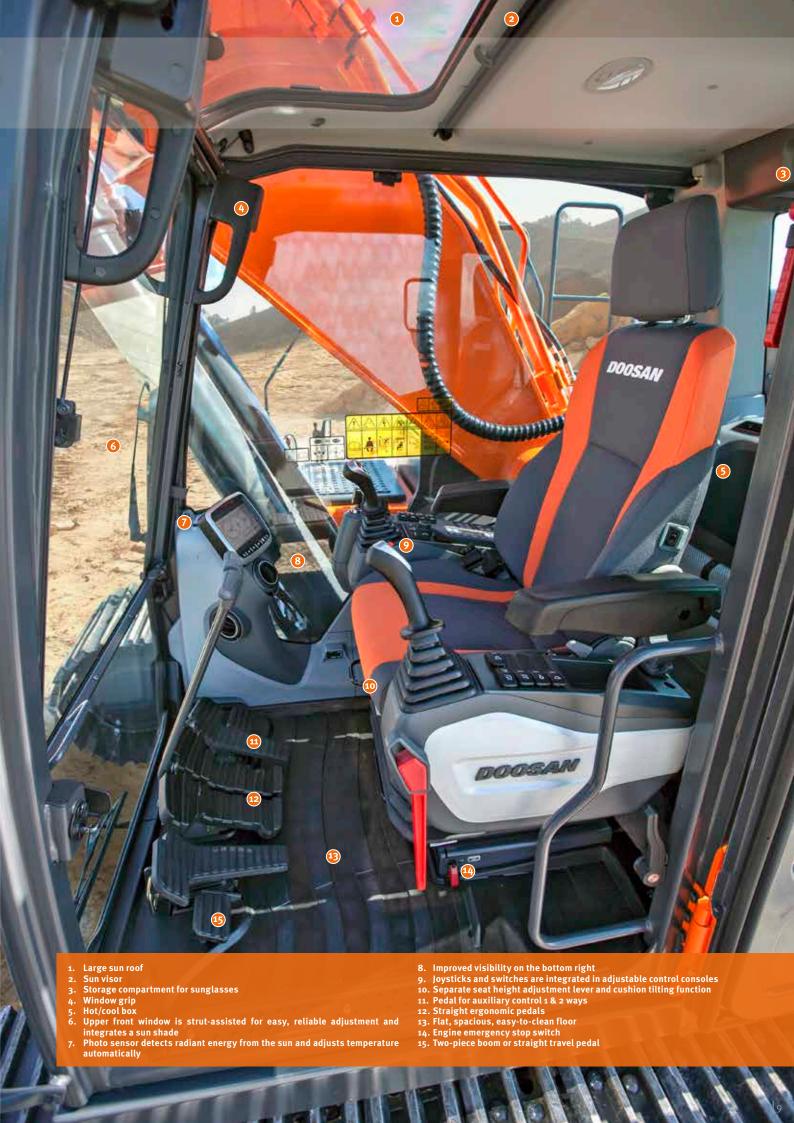
Optional MP3/USB radio or MP3/USB radio with CD player.

Storage space

The new cab contains 7 storage compartments including one hot/cool box (linked to the HVAC system).

CabSus mount

The cab's new suspension system (CabSus mount) dampens high vibrations and provides outstanding protection against impact. The system absorbs shocks and vibrations much more effectively than a conventional viscous suspension system.



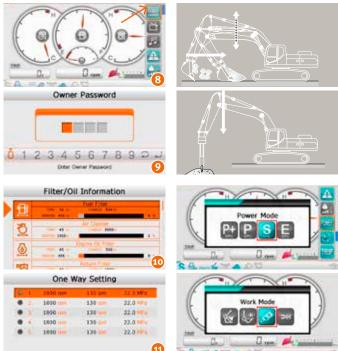
Total control in all simplicity

■ The highest standards of efficiency at your fingertips

The advanced & user-friendly technologies are just some of the many advantages of this generation. The ergonomic controls and the easy-to-view colour monitor place the machine firmly in your hands.

- The new multi-function 7" TFT LCD monitor displays a comprehensive range of useful technical information, allowing you to check the machine's status and settings at a glance
- Highly sensitive & low-effort joysticks and clear convenient controls enable you to work safely, smoothly & confidently with minimum effort for increased comfort, efficiency and production
- Doosan's unique jog shuttle switch gives you easy, precise control over all machine functions
- Proportional auxiliary flow means precision control, smoothness & efficiency when using attachments





TFT LCD colour monitor panel

The upgraded 7" Thin-Film-Transistor (TFT is a technology that improves image quality) LCD panel features a day and night display. The user-friendly monitor 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 exclusive jog shuttle switch.

- ${\tt 1.} \quad {\tt Fuel \, consumption \, level: \, current, \, total \, \& \, daily \, average \, fuel \, consumption}$
- 2. Fuel level
- 3. AdBlue® level
- 4. Eco symbol: changes colour when operating conditions change (idle, normal or loading)
- 5. Eco gauge: shows the average fuel efficiency
- 6. Engine coolant and hydraulic oil temperatures
- 7. Warning symbols
- 8. New shortcut menu: displayed on the right for rapid access to main functions
- 9. Optional anti-theft password-controlled starting
- 10. Filter oil information
- 11. Attachment management: stores up to 10 different attachment presets, enabling the operator to set hydraulic flow & pressure according to his needs

Dynamic power management

- Automatic travel speed function
- Activating the power boost control system increases digging force by 10%
- A one-touch deceleration button immediately reduces engine speed to low or idle
- Auto-idling starts 4 seconds after all controls are returned to neutral decreasing fuel consumption and reducing noise levels in the cab

Intelligent floating boom mode (optional)

The "intelligent floating boom" function allows the boom to move up & down freely according to application:

- Hydraulic breaker setting: during boom down operation the boom moves down freely under its own weight, which reduces vibration, stress on the machine & increases breaker life
- Fully floating mode: during boom down selection the boom is allowed to rise & fall as required while the bucket is drawn across the ground

4 Work modes & 4 Power modes

Deliver the needed power according to your specific application while minimising fuel consumption:

- 1-way mode, 2-way mode, Digging mode and Lifting mode
- Power-plus mode, Power mode, Standard mode, Economy mode



Reliability, the habit of a lifetime

Designed for long-term all-round heavy duty performance

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 under the most extreme conditions.

And we continually manufacture the most durable machines to ensure lower cost of ownership.













Extra-strong X-chassis

Designed using Finite Element Analysis and 3D computer simulation, the X-shaped undercarriage ensures optimum structural integrity and durability.

Undercarriage durability

- The chain is composed of sealed, self-lubricating links for long-term dependability
- The track spring and idler are joined for long-lasting performance and easy maintenance
- Cast steel heavy-duty sprockets guarantee the highest resistance
- Track rollers lubricated for life

Strengthened boom & arm

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

To better protect the base of the arm, reinforced bars have been added and the arm centre and end boss have been strengthened.

Advanced filtration

- Fuel filters & water separator: a filter-type high-performance water separator effectively captures moisture in the fuel, reducing impurities and helping minimise any fuel-related issues. Pre-filters and dual main filters as standard minimise fuel system failures
- Air cleaner: the large capacity forced air cleaner removes over 99% of airborne particles, reducing the risk of engine contamination and making the cleaning and cartridge change intervals greater

Pin & bushing advanced technology

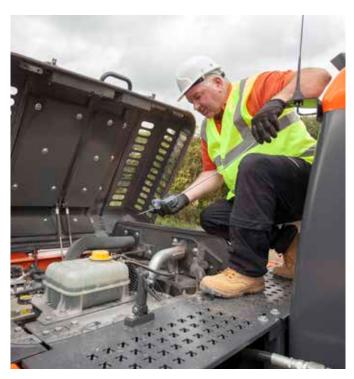
Highly lubricated metal is used for the boom pivot to increase the component's lifetime and lengthen greasing intervals. The bucket pivot features EM (Enhanced Macrosurface) bushings, which have a tailored surface pattern and self-lubricating coating to optimise greasing and make removal of debris more efficient. Ultra-hard wear-resistant discs & bucket pivot polymer shim increase durability even more.



Simple maintenance with maximum uptime

Excellent service accessibility

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, should you need it. 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 guard rails are installed along with anti-slip steps and plates, for safer, easier access to the whole upper structure
- 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
- Shut-off valves have been fitted on the pre-filter piping line and fuel tank drain piping to make servicing easier and prevent pollution from leakage
- Engine parts can be easily reached via the top and side panels
- For extra accessibility and servicing convenience, all filters (engine oil filter, fuel pre-filter, fuel filter and pilot filter) are located in the pump compartment

Longer service intervals

More than 99.5% of foreign particles are filtered out in oil return filters and engine oil filters - so the oil & filter change interval is longer.

Global Doosan network

With a network of Doosan dealers & Parts Distribution centres worldwide, your Doosan excavator can be serviced & maintained wherever you are.

Full solution provider

- The Doosan Telematic system is available as standard offering you all of the features for reading out vehicle operating & production parameters remotely, and providing you with complete peace of mind
- Protection+: extended warranty covering parts, travel and service (check with your local dealer)
- Maintenance contract: your dealer will support you with routine service at regular intervals
- Genuine parts: manufactured and tested to ensure they always meet the same high quality standards as the original components

SCR Tanl

Connected to the ECU, sensors in tank detect low level of AdBlue® & any system malfunction

Centralised greasing points

To make maintenance easier, the greasing points have been centralised.



Technical specifications

Engine

Designed to deliver superior performance and fuel efficiency, the Perkins Stage IV diesel engine fully meets the latest emissions regulations. To optimise machine performance, the engine uses high-pressure fuel injectors, air-to-air inter-cooler and electronic engine controls. 4-Cycle Water-Cooled, Wastegate Turbocharged, Exhaust Gas Recirculation (EGR) & Selective Catalytic Reduction (SCR) with no Diesel Particulate Filter (DPF).

	DX14oLC-5
Model	Perkins 1204F
No. of cylinders	4
Rated power at 2000 rpm	
(SAE J1995)	85.9 kW (115 hp)
(SAE J1349)	81.6 kW (109 hp)
Max. torque at 1400 rpm	51 kgf.m
Idle (low - high)	950 [±10] - 2060 [±25] rpm
Piston displacement	4400 cm³
Bore × stroke	105 mm × 127 mm
Starter	24 V × 4.5 kW
Batteries - Alternator	2 × 12 V, 100 Ah - 24 V, 85 A
Air filter	Double element air cleaner

Hydraulic system

The e-EPOS (Electronic Power Optimising System) is the brain of the excavator - minimising fuel consumption and enabling the efficiency of the hydraulic system to be optimised for all working conditions.

To harmonise the operation of the engine and the hydraulics, the e-EPOS is connected to the engine's electronic control unit (ECU) via a data transfer link.

- The hydraulic system enables independent or combined operations
- 2 travel speeds offer either increased torque or high speed
- Cross-sensing pump system for fuel savings
- Auto-deceleration system
- 4 operating modes, 4 power modes
- Flow and pressure control of auxiliary hydraulic circuits from control panel
- Computer-aided pump flow control

► Pumps & system pressure

	DX14oLC-5
Main pumps, type:	2 × variable displacement axial piston pumps
Maximum flow at 2000 rpm	2 × 114 l/min
Pilot pump, type:	Gear pump
Maximum flow at 2000 rpm	30 l/min
Relief valve settings:	
Pressure up	350 kg/cm²
Travel	330 kg/cm²
Swing	275 kg/cm²
Pilot	40 kg/cm²

Undercarriage

Extremely robust construction throughout - made of high-quality, durable materials, with all welded structures designed to limit stresses.

- 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

	DX14oLC-5
Upper rollers (standard shoe)	1
Lower rollers	7
Number of links & shoes per side	46
Link pitch	171 mm
Tumbler distance (std)	2780 mm

Hydraulic cylinders

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

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

Weight

		DX14	oLC-5
	Shoe width (mm)	Operating weight (t)	Ground pressure (kgf/cm²)
	600 (Std)	14.4	0.37
Triple grouser	500	14.2	0.43
	700	14.6	0.32
Rubber	500	14.1	0.43

Component weights

Item	Unit	DX140LC-5	Remarks
Upper structure without front	kg	6927	With counterweight
Lower structure assembly	kg	5043	
Front assembly	kg	2434	
Counterweight	kg	2200	
Boom	mm / kg	4600 / 767	Including bushing
Boom, two piece mm / kg		4980 / 592 + 384	
Arms	mm / kg	2100 / 370 - 2500 / 414 - 3000 / 465	Including bushing

Swing mechanism

The swing mechanism uses an axial piston motor, driving a 2-stage planetary reduction gear bathed in oil for maximum torque.

- Swing bearing: single-row, shear type ball bearing with induction hardened internal gear
- Internal gear and pinion immersed in lubricant

► Swing speed & torque

	DX14oLC-5
Maximum swing speed	10.7 rpm
Maximum swing torque	4800 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.

The track frame protects the travel motor, brake and planetary gears. The multi-disc track brakes are spring-applied and hydraulic released.

► Speed & traction

	DX14oLC-5	
Travel speed (low - high)	3.0 - 5.0 km/h	
Maximum traction	16.3 t	
Maximum gradeability	35° / 70%	

Fluid capacities

	DX14oLC-5
Fuel tank	265 l
Cooling system (radiator)	25 l
Urea (def) tank	19 l
Hydraulic oil tank	150 l
Engine oil	8 l
Swing drive	31
Travel device	2 × 2 l

⇒ Cab

The air-conditioning and heating systems are integrated for optimal climate control. An automatically-controlled fan supplies the pressurised and filtered cab air, which is distributed throughout the cab from multiple vents.

The heated air suspension, adjustable operator's seat includes a seat belt. The operator can adjust the ergonomic seat and joystick console separately according to his preferences.

► Noise emission

	DX14oLC-5	
A-weighted emission sound pressure level at the operator's position, LpAd (ISO 6396:2008)	70 dB(A)	
A-weighted sound power level, LwAd (2000/14/EC)	Declared : 101 dB(A) Measured : 99 dB(A)	

Note – Declared single-number noise emission values are the sum of measured values and the associated uncertainty, and they represent upper boundaries of the range of values which is likely to occur in measurements.

Buckets

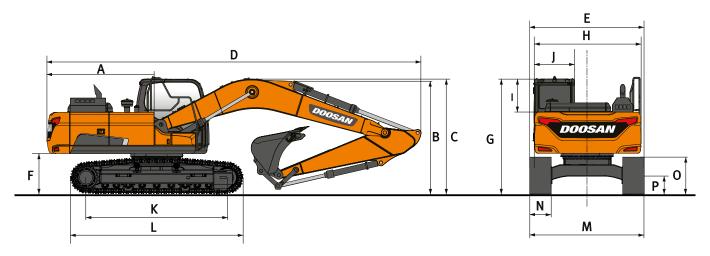
							DX14oLC-5		
		Width (mm)				One-piece boom			ce boom
Bucket Type	Capacity (m³) SAE	With side cutters	W/O side cutters	Weight (kg)	Arm 2.1 m	Arm 2.5 m	Arm 3.0 m	Arm 2.1 m	Arm 2.5 m
						Triple	grouser shoe 6	oo mm	
	0.24	534	464	275	А	А	Α	Α	А
	0.39	820	736	341	A	Α	A	Α	Α
	0.45	911	821	381	A	Α	A	А	Α
GP	0.51	991	907	393	Α	Α	A	А	В
	0.59	1081	997	413	A	В	С	В	С
	0.64	1167	1083	435	A	В	С	С	D
	0.76	1339	1255	484	С	С	D	D	D
HD	0.42	827	762	462	Α	A	А	А	Α
	0.49	913	848	497	A	Α	В	Α	В
	0.54	981	916	517	A	В	С	В	С

		Widel	(DX14oLC-5			
Bucket Type	Capacity (m³) SAE	Width With side cutters	W/O side cutters	Weight (kg)	Arm 2.1 m	One-piece boom Arm 2.5 m	Arm 3.0 m	
						Rubber shoe 500 mm		
	0.24	534	464	275	А	A	А	
	0.39	820	736	341	A	A	Α	
	0.45	911	821	381	Α	A	А	
GP	0.51	991	907	393	A	Α	В	
	0.59	1081	997	413	A	В	С	
	0.64	1167	1083	435	В	С	С	
	0.76	1339	1255	484	С	D	D	
	0.42	827	762	462	A	A	А	
HD	0.49	913	848	497	Α	A	В	
	0.54	981	916	517	A	В	С	

A: Suitable for materials with a density less than or equal to 2100 kg/m³ B: Suitable for materials with a density less than or equal to 1800 kg/m³

C: Suitable for materials with a density less than or equal to 1500 kg/m³
D: 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. For reference only.

Dimensions



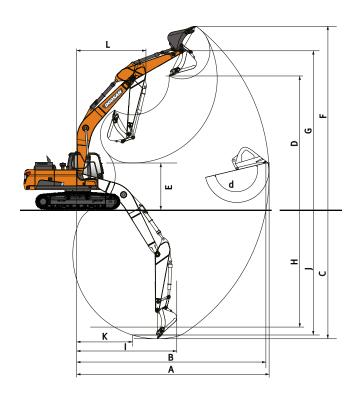
Dimensions

		One-piece boom	Two-piece boom			
Boom length - mm		4600	4980			
Arm length - mm	2100	2500	3000	2100	2500	
Bucket capacity - m³	0.59	0.51	0.45	0.51	0.45	
A Tail swing radius - mm	2205	2205	2205	2205	2205	
B Shipping height (boom) - mm	2480	2635	3065	2615	2800	
C Shipping height (hose) - mm	2640	2820	3180	2840	3000	
D Shipping length - mm	7690	7685	7640	8050	7975	
E Shipping width - mm	2590	2590	2590	2590	2590	
F Counterweight clearance - mm	895	895	895	895	895	
G Height over cab - mm	2785	2785	2785	2785	2785	
H House width - mm	2540	2540	2540	2540	2540	
I Cab height above house - mm	840	840	840	840	840	
J Cab width - mm	1010	1010	1010	1010	1010	
K Tumbler distance - mm	3035	3035	3035	3035	3035	
L Track length - mm	3755	3755	3755	3755	3755	
M Undercarriage width std - mm	2590	2590	2590	2590	2590	
N Shoe width std mm	600	600	600	600	600	
O Track height - mm	795	795	795	795	795	
P Ground clearance - mm	410	410	410	410	410	

⊃ Digging forces (ISO)

			Two-pie	ce boom	
Boom length - mm		4600	4980		
Arm length - mm	2100	2500	3000	2100	2500
Bucket capacity - m³	0.59	0.51	0.45	0.51	0.45
BUCKET (Normal/Press. Up) - ton	10.5 / 11	10.5 / 11	10.5 / 11	10.5 / 11	10.5 / 11
ARM (Normal/Press. Up) - ton	7.2 / 7.7	6.2 / 6.5	5.6 / 6.0	7.2 / 7.7	6.2 / 6.5

Working range



Working range

		One-piece boom		Two-pie	ce boom
Boom length - mm		4600	4980		
Arm length - mm	2100	2500	3000	2100	2500
Bucket capacity - m³	0.59	0.51	0.45	0.51	0.45
A Max. digging reach - mm	7815	8285	8665	8260	8720
B Max. digging reach (ground) - mm	7660	8140	8530	8115	8585
C Max. digging depth - mm	5235	5635	6135	5295	5725
D Max. loading height - mm	5865	6315	6440	6395	6855
E Min. loading height - mm	2575	2230	1725	3070	2715
F Max. digging height - mm	8150	8660	8745	8730	9235
G Max. bucket pin height - mm	7080	7535	7655	7615	8075
H Max. vertical wall depth - mm	3710	4495	4685	4110	4680
I Max. radius vertical - mm	5745	5605	5970	5870	5730
J Max. digging depth (8´level) - mm	4910	5395	5890	5180	5615
K Min. radius 8´line - mm	1805	1915	1825	910	910
L Min. swing radius - mm	2285	2600	2625	2775	2970
d Bucket angle - °	174	174	174	174	174

Doosan Buckets

4 More. More choice - More durable - More strength - More performance!

The General purpose bucket is designed for digging and re-handling soft to medium materials (e.g. materials with low wear characteristics such as top-soil, loam, coal).

Treavy construction bucket



The Heavy duty bucket is designed for mass excavations in dense materials such as hard packed clay, shot limestone, limited rock content and gravel.

The Severe duty bucket is designed for durability in digging compact materials like loose or blasted rock, hard packed clay and stone.



The X-treme duty bucket is designed as a long-life version of the Severe duty bucket for digging in the most abrasive

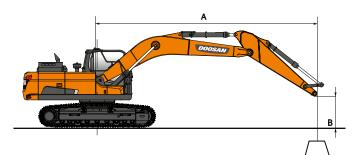
Lifting capacities

⇒ Standard track width: 2590 mm • W/O Bucket

Hote constant	A	Chassis Frame	1.5	; m	3.0	m	4.5	5 m	6.0	m		Max. reach	
Unit: 1000 kg	В	Attachment	f	(<u>-</u>]e	B	<u>(</u> -}e	F)	(ide	ď	(] =	ď	(] e	Α
		Dozer up									2.76 *	2.76 *	3.61
	7.5 M	W/O dozer									2.76 *	2.76 *	3.61
		Dozer up					3.66 *	3.66 *			2.18 *	2.18 *	5.42
	6.0 m	W/O dozer					3.66 *	3.66 *			2.18 *	2.18 *	5.42
		Dozer up					3.95 *	3.95 *	3.20 *	2.5	2.02 *	2.02 *	6.39
	4.5 m	W/O dozer					3.95 *	3.74	3.20 *	2.35	2.02 *	2.02 *	6.39
One-piece boom 4.6 m	3.0 m	Dozer up			6.67 *	6.67 *	4.96 *	3.77	4.07	2.44	2.01 *	1.95	6.91
Arm 2.5 m		W/O dozer			6.67 *	6.67 *	4.96 *	3.55	3.58	2.28	2.01 *	1.82	6.91
Shoe 600 mm		Dozer up			8.32 *	6.38	6.15	3.54	3.96	2.34	2.12 *	1.84	7.07
Counterweight 2.2 t	1.5 M	W/O dozer			8.32 *	5.99	5.41	3.31	3.48	2.19	2.12 *	1.71	7.07
		Dozer up			7.15 *	6.1	5.96	3.37	3.88	2.27	2.38 *	1.87	6.90
	0.0 m	W/O dozer			7.15 *	5.7	5.22	3.15	3.39	2.11	2.38 *	1.74	6.90
		Dozer up	5.38 *	5.38 *	10.33 *	6.07	5.89	3.31	3.85	2.24	2.91 *	2.08	6.37
	-1.5 M	W/O dozer	5.38 *	5.38 *	10.33 *	5.68	5.16	3.09	3.36	2.09	2.91 *	1.93	6.37
		Dozer up	9.19 *	9.19 *	9.86 *	6.18	5.95	3.36			4.22 *	2.66	5.37
	-3.0 m	W/O dozer	9.19 *	9.19 *	9.86 *	5.79	5.21	3.14			4.01	2.48	5.37

⊃ Standard track width: 2590 mm • W/O Bucket

11.10	A	Chassis Frame	1.5	m	3.0	m	4.4	5 m	6.0	m		Max. reach	
Unit: 1000 kg	В	Attachment	f	伊	J	GP	ď	GP	ð	(-	ů	Ģ	Α
		Dozer up									2.42 *	2.42 *	4.34
	7.5 m	W/O dozer									2.42 *	2.42 *	4.34
	(a m	Dozer up									2.05 *	2.05 *	5.91
	6.0 m	W/O dozer									2.05 *	2.05 *	5.91
		Dozer up					3.35 *	3.35 *	3.20 *	2.53	1.94 *	1.94 *	6.81
	4.5 m	W/O dozer					3.35 *	3.35 *	3.20 *	2.37	1.94 *	1.9	6.81
	3.0 m	Dozer up			5.40 *	5.40 *	4.38 *	3.82	3.95 *	2.44	1.96 *	1.77	7.30
One-piece boom 4.6 m		W/O dozer			5.40 *	5.40 *	4.38 *	3.59	3.59	2.29	1.96 *	1.65	7.30
Arm 3.0 m	1.5 m	Dozer up			8.90 *	6.5	5.72 *	3.55	3.96	2.33	2.08 *	1.67	7.45
Shoe 600 mm		W/O dozer			8.90 *	6.11	5.44	3.33	3.47	2.18	2.08 *	1.55	7.45
Counterweight 2.2 t		Dozer up			8.35 *	6.06	5.94	3.34	3.85	2.23	2.34 *	1.69	7.29
	0.0 m	W/O dozer			8.35 *	5.67	5.2	3.12	3.36	2.08	2.34 *	1.57	7.29
		Dozer up	5.20 *	5.20 *	10.12 *	5.96	5.83	3.25	3.79	2.18	2.85 *	1.85	6.79
	-1.5 m	W/O dozer	5.20 *	5.20 *	10.12 *	5.56	5.09	3.02	3.3	2.03	2.77	1.72	6.79
		Dozer up	8.19 *	8.19 *	10.41 *	6.03	5.84	3.26			3.94	2.28	5.87
	-3.0 m	W/O dozer	8.19 *	8.19 *	10.41 *	5.63	5.11	3.04			3.44	2.12	5.87
		Dozer up			7.94 *	6.26					5.36 *	3.71	4.25
	-4.5 m	W/O dozer			7.94 *	5.87					5.36 *	3.47	4.25



- : Rating over front.
- 📬 : Rating over side or 360°.
- 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.
- 4. The nominal loads shown do not exceed 75% of tipping loads or 87% of hydraulic lifting capacity. 5. 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.

Lifting capacities

⊃ Standard track width: 2590 mm • W/O Bucket

10.00	A	Chassis Frame	1.5	; m	3.0	m	4.5 m		6.o m		Max. reach		
Unit: 1000 kg	В	Attachment	f	<u></u>	f	Œa	ď	(He	ď	(] e	ď	(-]0	Α
		Dozer up									2.76 *	2.76 *	3.61
	7.5 m	W/O dozer									2.76 *	2.76 *	3.61
	(a m	Dozer up					3.66 *	3.66 *			2.18 *	2.18 *	5.42
	6.0 m	W/O dozer					3.66 *	3.66 *			2.18 *	2.18 *	5.42
		Dozer up					3.95 *	3.9	3.20 *	2.46	2.02 *	2.02 *	6.39
	4.5 m	W/O dozer					3.95 *	3.68	3.20 *	2.31	2.02 *	2.02 *	6.39
One-piece boom 4.6 m	3.0 m	Dozer up			6.67 *	6.67 *	4.96 *	3.71	4	2.39	2.01 *	1.91	6.91
Arm 2.5 m		W/O dozer			6.67 *	6.58	4.96 *	3.49	3.51	2.24	2.01 *	1.78	6.91
Shoe 500 mm Rubber		Dozer up			8.32 *	6.27	6.04	3.47	3.89	2.3	2.12 *	1.8	7.07
Counterweight 2.2 t	1.5 M	W/O dozer			8.32 *	5.88	5.31	3.25	3.41	2.14	2.12 *	1.67	7.07
		Dozer up			7.15 *	5.98	5.85	3.3	3.81	2.22	2.38 *	1.83	6.90
	0.0 m	W/O dozer			7.15 *	5.59	5.12	3.08	3.32	2.07	2.38 *	1.7	6.90
	4 5 80	Dozer up	5.38 *	5.38 *	10.33 *	5.96	5.78	3.25	3.78	2.2	2.91 *	2.04	6.37
	-1.5 m	W/O dozer	5.38 *	5.38 *	10.33 *	5.57	5.05	3.03	3.3	2.04	2.91 *	1.89	6.37
		Dozer up	9.19 *	9.19 *	9.86 *	6.07	5.84	3.29			4.22 *	2.61	5.37
	-3.0 m	W/O dozer	9.19 *	9.19 *	9.86 *	5.68	5.11	3.07			3.93	2.43	5.37

⊃ Standard track width: 2590 mm • W/O Bucket

10.00	A	Chassis Frame	1.5	m	3.0	m	4.5	5 m	6.0	m	Max. reach		
Unit: 1000 kg	В	Attachment	F	CP	ď	CP	ď	Œ	f	(] =	ď	G#	A
		Dozer up									2.42 *	2.42 *	4.34
	7.5 m	W/O dozer									2.42 *	2.42 *	4.34
	(a m	Dozer up									2.05 *	2.05 *	5.91
	6.0 m	W/O dozer									2.05 *	2.05 *	5.91
		Dozer up					3.35 *	3.35 *	3.20 *	2.55	1.94 *	1.94 *	6.81
	4.5 m	W/O dozer					3.35 *	3.35 *	3.20 *	2.4	1.94 *	1.92	6.81
	3.0 m	Dozer up			5.40 *	5.40 *	4.38 *	3.85	3.95 *	2.47	1.96 *	1.79	7.30
One-piece boom 4.6 m		W/O dozer			5.40 *	5.40 *	4.38 *	3.63	3.64	2.32	1.96 *	1.67	7.30
Arm 3.0 m	1.5 m	Dozer up			8.90 *	6.57	5.72 *	3.59	4	2.36	2.08 *	1.69	7.45
Shoe 700 mm		W/O dozer			8.90 *	6.18	5.51	3.37	3.51	2.2	2.08 *	1.57	7.45
Counterweight 2.2 t		Dozer up			8.35 *	6.13	6	3.38	3.89	2.26	2.34 *	1.71	7.29
	0.0 m	W/O dozer			8.35 *	5.74	5.27	3.16	3.4	2.1	2.34 *	1.59	7.29
		Dozer up	5.20 *	5.20 *	10.12 *	6.03	5.89	3.28	3.83	2.21	2.85 *	1.87	6.79
	-1.5 m	W/O dozer	5.20 *	5.20 *	10.12 *	5.63	5.16	3.06	3.35	2.05	2.81	1.74	6.79
		Dozer up	8.19 *	8.19 *	10.41 *	6.09	5.9	3.3			3.98	2.3	5.87
	-3.0 m	W/O dozer	8.19 *	8.19 *	10.41 *	5.7	5.17	3.08			3.48	2.15	5.87
		Dozer up			7.94 *	6.26					5.36 *	3.71	4.25
	-4.5 m	W/O dozer			7.94 *	5.94					5.36 *	3.51	4.25

⊃ Standard track width: 2590 mm • W/O Bucket

0.00	Α	Chassis Frame	3.0	m	4.	; m	6.0	o m	7.5	m		Max. reach	
Unit: 1000 kg	В	Attachment	B	Œe	U	(] e	ð	G	ď	œ	Ů	œ	Α
		Dozer up			2.44 *	2.44 *					1.93 *	1.93 *	4.59
	7.5 m	W/O dozer			2.44 *	2.44 *					1.93 *	1.93 *	4.59
	(a m	Dozer up			2.92 *	2.92 *	2.19 *	2.19 *			1.52 *	1.52 *	6.10
	6.0 m	W/O dozer			2.92 *	2.92 *	2.19 *	2.19 *			1.52 *	1.52 *	6.10
	4.5 m	Dozer up			3.41 *	3.41 *	3.43 *	2.52			1.36 *	1.36 *	6.98
		W/O dozer			3.41 *	3.41 *	3.43 *	2.36			1.36 *	1.36 *	6.98
wo-piece boom 4.98 m	3.0 m	Dozer up			4.53 *	3.73	3.88 *	2.42			1.31 *	1.31 *	7.46
Arm 2.5 m		W/O dozer			4.53 *	3.51	3.59	2.27			1.31 *	1.31 *	7.46
Shoe 600 mm		Dozer up			5.85 *	3.46	3.95	2.3	2.25 *	1.65	1.34 *	1.34 *	7.60
Counterweight 2.2 t	1.5 m	W/O dozer			5.36	3.23	3.46	2.15	2.25 *	1.53	1.34 *	1.34 *	7.60
		Dozer up			5.9	3.28	3.85	2.21			1.43 *	1.43 *	7.44
	0.0 m	W/O dozer			5.16	3.06	3.36	2.06			1.43 *	1.43 *	7.44
		Dozer up	7.41 *	5.94	5.83	3.23	3.81	2.18			1.63 *	1.63 *	6.96
	-1.5 m	W/O dozer	7.41 *	5.55	5.1	3	3.32	2.02			1.63 *	1.63 *	6.96
		Dozer up	10.25 *	6.07	5.89	3.27	3.11 *	2.25			2.05 *	2.05 *	6.07
	-3.0 m	W/O dozer	10.25 *	5.67	5.15	3.05	3.11 *	2.09			2.05 *	2.05 *	6.0

Standard and optional equipment

⊃ Engine	
Perkins 1204F, Stage IV compliant, SCR, EGR, DOC, water-cooled diesel engine	•
with Wastegate Turbocharger and air-to-air intercooler Auto-idle function	•
Auto shut-off	•
No DPF	•
→ Hydraulic system	
Boom and arm flow regeneration Swing anti-rebound valves	•
Spare ports (valve)	•
One-touch power boost function	•
Smart Power Control (SPC) Breaker piping	•
Cylinder cushioning & contamination seals	•
Control of auxiliary hydraulic flow and pressure from the display panel	•
Cab & Interior	
Pressurised, sound-insulated and CabSus mounted cab Heated, adjustable air suspension seat with adjustable headrest and armrest	•
Air conditioning with climate control	•
Pull-up type front window with sun roller blind and removable lower front window	•
Sliding left window Intermittent upper and lower windshield wiper	•
Rain visor	•
Rear window defroster switch Adjustable PPC wrist control levers for arm, boom, bucket and swing	•
Joysticks and pedals provide proportional control of auxiliary lines for attachments	•
Travel pedals and hand levers Jog shuttle switch	•
7" (18 cm) TFT LCD colour monitor panel	•
Attachment management system	•
Engine speed (RPM) control dial Automatic travel speed	•
4 operating modes & 4 working modes	•
Electric horn Cigarette lighter	•
Ceiling light	•
Cup holder	•
Multiple storage compartments (e.g. document holder under seat) Storage area (tools, etc.)	•
Hot and cool box	•
Flat, spacious, easy-to-clean floor Master key	•
Anti-theft protection	•
12 V spare power socket Serial communication port for laptop PC interface	•
Remote radio ON/OFF switch	•
Loudspeakers and connections for radio	0
MP3/USB radio or MP3/USB radio with CD player	0
⊃ Safety	
Roll Over Protective Structure (ROPS) Boom and arm cylinder safety valves	•
Overload warning device	•
Large guard rails on upper structure and steps Rotating beacon	•
Rear-view camera	•
Punched metal anti-slip plates	•
Hydraulic safety lock lever Safety glass	•
Hammer for emergency escape	•
Right and left rear-view mirrors Lockable fuel cap and covers	•
Battery cut-off switch	•
Engine restart prevention system Parking brake	•
Work lights (2 front frame, 4 front cab-mounted, 2 rear cab-mounted, 2 boom-	•
mounted and 1 rear side)	•
Emergency engine stop switch and hydraulic pump control switch FOGS cab - top and front cab guards (ISO 10262)	0
Front window upper and lower guards	
Side-view camera Guard rails ISO ww2867:2011	0
Other	
Boom: 4600 mm – arm: 2500 mm – counterweight: 2200 kg Doosan Connect Telematic system	•
Auto shut-off fuel filler pump	•
Double element air cleaner Fuel pre-filter with water separator sensor	•
Dust screen for radiator/oil cooler	•
Self-diagnostic function	•
Alternator (24 V, 85 A) - Battery (2 × 12 V, 100 Ah) Hydrostatic 2-speed travel system with automatic shift	•
Remote greasing for swing circle and work group pivot points	•

Guards for work lights	•
Arms: 2100 & 3000 mm	0
Boom: two-piece boom 4980 mm	0
Doosan buckets: full range of GP, HD & Rock buckets	
Doosan breakers and Doosan quick-couplers	0
Hydraulic piping for crusher, quick-coupler, clamshell, tilting and rotating buckets	0
Additional filter for breaker piping	0
Floating boom	0
Double pump flow	0
Engine coolant heater	0
Straight travel pedal (not to be combined with two-piece boom)	0
Bio oil	0
Automatic lubrication system	0
Alarm for travel & swing	0
Undercarriage	
Hydraulic track adjuster	•
Normal track guards	•
Greased and sealed track links	•
600 mm triple grouser shoe	
500, 700 mm triple grouser shoe	
500 mm rubber shoe	0
Dozer blade (width: 2490 mm for 500 mm shoe)	0
Dozer blade (width: 2590 mm for 600 mm shoe)	
Dozer blade (width: 2690 mm for 700 mm shoe)	0



Standard: Optional:

Engine coolant heater



Straight travel pedal



Doosan buckets



Double pump flow (for attachments requiring high hydraulic capacity)



Two-piece boom



Doosan breakers and quick-couplers

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.



*Functions may not be applied to all models. Please contact your sales representative for more information on this feature.