213 kW (286 HP) @ 1800 rpm

39200 - 40600 kg

1.20 - 2.01 m^3

DX380LC-3 | Crawler Excavator

DX380LC-3

40+ TON CLASS RETURN ON INVESTMENT

PROFIT FROM MORE PRODUCTIVITY FOR YOUR MEDIUM TO BIG SIZE JOBS!

The new DX380LC-3 is strong and robust enough to tackle your most demanding jobs, yet kind to the environment and your pocket. Keep profits up and costs down with a range of new features such as:

- A new generation Stage IIIB-compliant engine. Benefit from strong, responsive power with reduced fuel consumption and emissions as well as improved hydraulic flow
- Top quality materials and components. Count on long-term reliability and maximum uptime
- A new fully-featured, ergonomically designed ROPS cab. Work in top-class comfort with excellent all-round visibility and controllability
- The ultimate combination of strength, stability and versatility. A real return on your investment

TAKE A TOUR

EXPERT CONTROL

- Joystick and switches integrated in control stand for precise operation. All switches grouped together and ergonomically positioned to the right
- Jog shuttle switch to control various machine functions
- 4 working modes for maximum efficiency
- Proportional auxiliary flow to operate attachments smoothly and precisely
- New, user-friendly 7" TFT LCD colour monitor with full access to machine settings and maintenance data
- Rear camera and large side mirrors
- Straight travel pedal (optional)

Reliable and well protected hydraulic, electric and lubrication routings with simple, optimised layout

MAXIMUM EFFICIENCY

- New powerful DOOSAN DL08K "Common Rail", Stage IIIB compliant, EGR 6 cylinder engine
- e-EPOS System (Electronic Power Optimising System) and hydraulic power boost function for optimised combustion and minimised emissions
- Efficient conversion of engine output into hydraulic performance for better fuel efficiency and lower costs
- New electro-hydraulic system offering more smoothness, precision and improved productivity

COMFORTABLE WORKSPACE

- Spacious, newly designed, pressurised ROPS cab with low noise and vibration levels
- Fully adjustable heated air suspension seat as standard
- Large sun roof for extra overhead visibility
- Air conditioning with climate control
- Extra-large door for easy access

EASY MAINTENANCE

- Easy access to all maintenance components
- Maintenance data available directly from control panel
- Fuel pre-filter with water separator
- PC access for maintenance and repairs
- Self-diagnosis function
- Reliable Doosan parts
- Battery cut-off switch and increased capacity (150 Ah)

SOLID STRENGTH

- Heavy-duty X-shaped undercarriage with integrated track spring and idler plus durable box section track frame
- Undercarriage narrow / standard: 3.00 / 3.35 m
- Increased drawbar pull of 36.9 t

DX380LC-3

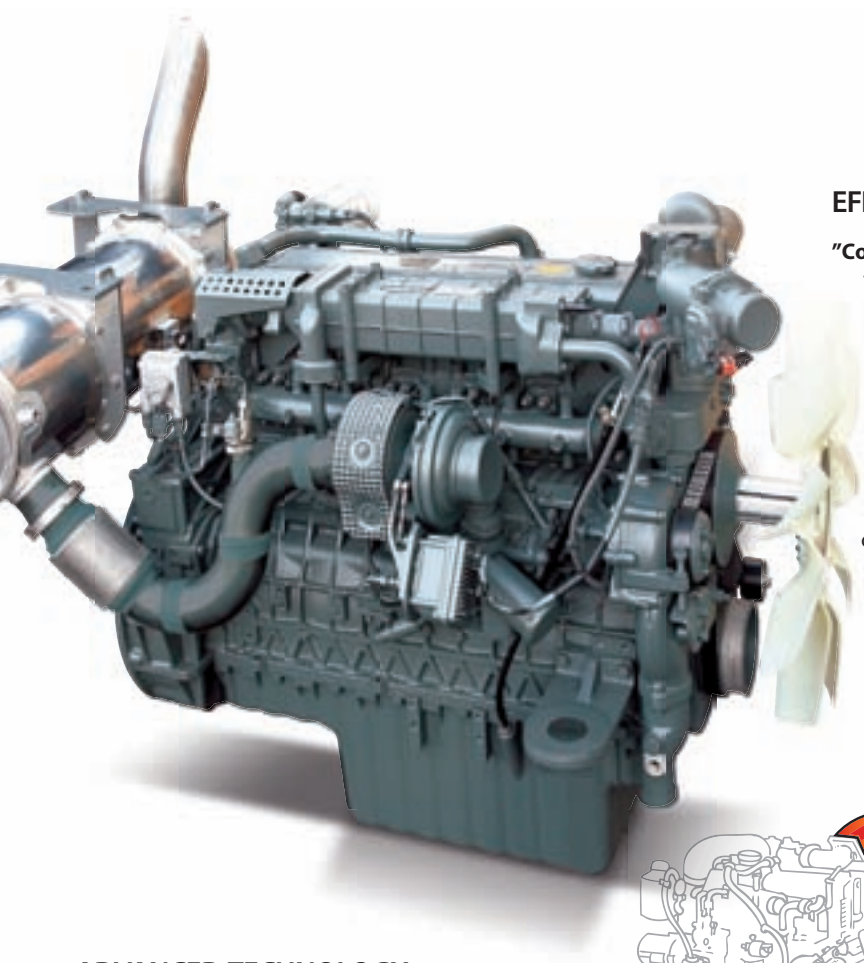
Innovative hydraulics and excellent fuel efficiency

Expect the best performance from your machine

The DX380LC-3 takes even the heaviest tasks in its stride with efficient, dependable performance that saves you time and money. 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.
A new hydraulic system uses the engine power more effectively, maximises pump output and delivers more comfort, smoothness and accuracy.

6 ASSETS TO YOUR BENEFIT!

- Power: 213 kW (286 HP) 6 cylinder engine
- New engine: fuel/productivity ratio up by 22% (standard mode)
- Productivity: side lifting capacity at 6 m reach and 3 m height: 10.6 t
- Excavation: max. bucket digging force: 26.3 t
- Traction: max. drawbar pull: 36.9 t
- Max. digging depth: 8215 mm (with 3950 mm arm)



EFFICIENT MANAGEMENT OF FUEL AND HYDRAULICS

"Common Rail" Doosan DL08K engine

The heart of the DX380LC-3 is the "Common Rail" DOOSAN DL08K 6 cylinder engine, carefully designed with common rail injection and 4 valves per cylinder. The engine delivers 286 HP (213 kW / 290 PS) at only 1800 rpm. Powerful torque allows efficient use of the hydraulic system and faster working cycles.

Already known for its outstanding reliability, the DOOSAN DL08K engine has been optimised for the DX380LC-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.

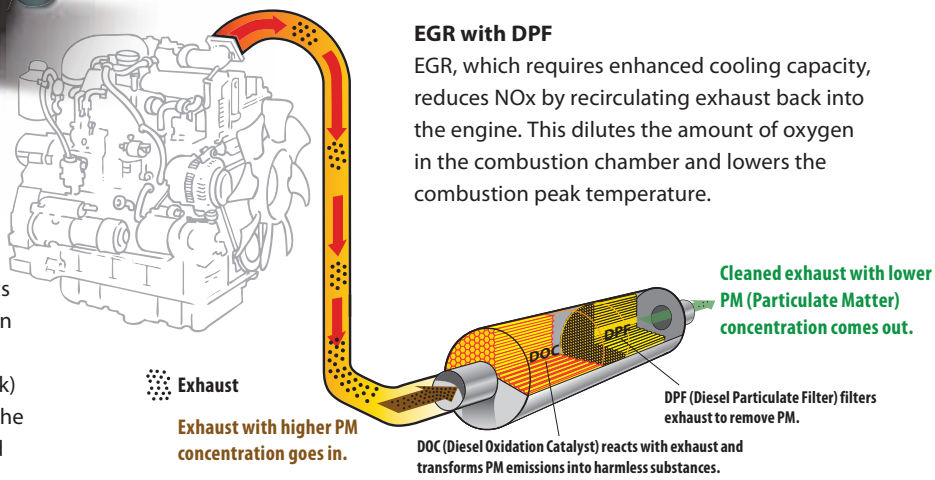
ADVANCED TECHNOLOGY FOR OPTIMUM POWER MANAGEMENT

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.

EGR with DPF

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.



Simple and efficient

- Choice between 4 power modes and 4 working modes guarantees optimum performance in all conditions
- Proportional auxiliary control for attachments
- Electronic control of fuel consumption optimises efficiency
- Auto-idle function enables fuel saving
- Regulation and precise control of the flow rate required by the work group
- 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
- The DX380LC-3 is equipped with a special new electro-hydraulic system consisting of a closed centre main control valve and electronic control of pump pressure. This provides more smoothness and controllability for better operator comfort and improved overall productivity

Quick and efficient

The main hydraulic pumps have an increased capacity of 2 x 360 l/min, reducing cycle times for heightened productivity. A high capacity gear pump improves pilot line efficiency.

Smooth and fast

The swing drive minimises shocks during rotation while making increased torque available to ensure rapid cycles.

Separate radiator and oil cooler

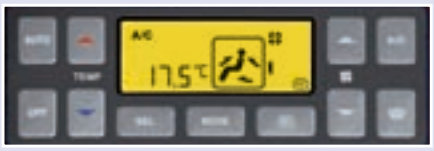
The radiator and oil cooler have been separated. This reduces noise as well as improving cooling efficiency and decreasing fuel consumption and power demand.

The ideal workspace – designed around you

The DX380LC-3 is 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.

Storage space
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 airflow to suit conditions. A recirculated air function is also available.

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

ERGONOMIC OPERATOR ENVIRONMENT

Feel the comfort of a seat that fits you perfectly:
Using a dual positioning cursor, you can slide the seat back from the joysticks for the best working position. You can also slide the entire seat assembly to adjust the reach to the control pedals to your leg length.

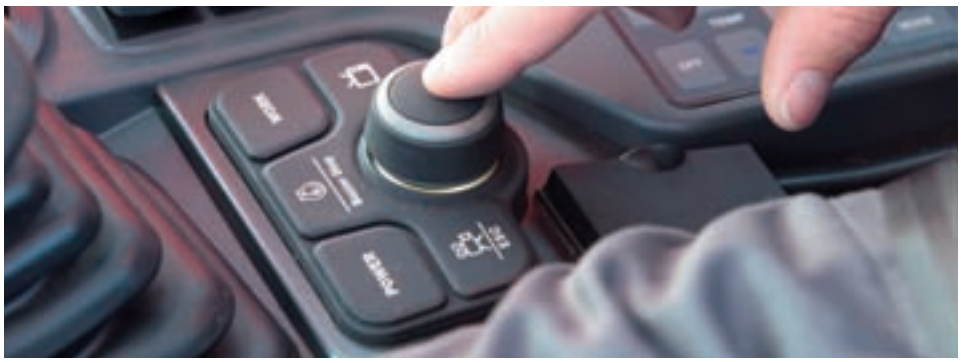
1. **Large sun roof**
2. **Sun visor**
3. **Straight ergonomic pedals**
4. **Flat, spacious, easy-to-clean floor**
5. **Upper front window is strut-assisted for easy, reliable adjustment and integrates a sun shade**
6. **Joysticks and switches are integrated in adjustable control consoles**
7. **Separate seat height adjustment lever and cushion tilting function**
8. **Storage compartment for sunglasses**
9. **Hot/cool box**
10. **Photo sensor detects radiant energy of the sun and adjusts temperature automatically**

Cabsus mount

The cab features a new suspension system (CabSus mount) that combines high vibration dampening with outstanding protection against impact. The system absorbs shocks and vibrations much more effectively than a conventional viscous suspension system.

Maximum controllability in every situation

Doosan's unique new jog shuttle switch gives you easy, precise control over all machine functions. Proportional auxiliary flow means that the excavator's huge power is matched by smooth, confident manoeuvres. Using highly sensitive joysticks and clear controls positioned for convenient access, you are able to work safely and confidently with minimum effort. Even the switches have been ergonomically placed on the right and positioned according to the frequency with which they are used.
The highest standards of efficiency are just a finger's reach away.



Jog shuttle control switch
- 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 user-friendly 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

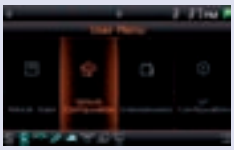
4 Power modes for maximum efficiency
- Power plus mode: uses 100% engine power
- Power mode: uses 93% engine power
- Standard mode: uses 87% engine power
- Economy mode: uses 81% engine power

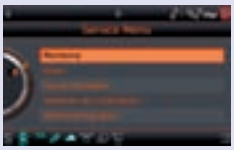
Gauges
- Engine coolant and hydraulic oil temperatures
- Fuel level
- Eco symbol: changes colour when operating conditions change (idle, normal or loading)
- Eco gauge: shows the average fuel efficiency for 1 minute of operation
- Warning symbols

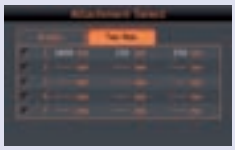

4 Work modes


4 Power modes


Auto-idle

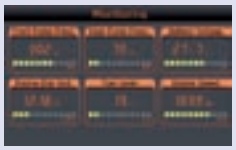

User menu


Service menu


Attachment presets


Filter/oil information


Anti-theft protection


Monitoring

Your safety – our biggest concern
- 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 requiring extra safety measures
- Cab and boom lights are fitted as standard, greatly enhancing safety on night-time jobs
- Large side mirrors improve all-round visibility (ISO compliant)

Other standard safety features include: automatic overheating prevention, low oil pressure sensor, engine emergency cut-off switch, auxiliary mode switch (to stop the pump if the control system malfunctions), overload warning device.
An optional travel/swing alarm is also available.

Simple operation

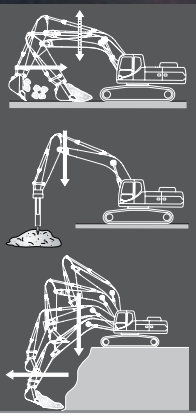
- "Short stroke" joysticks enable easy, precise control of all operations
- A thumb wheel switch and buttons on the joysticks allow proportional control of attachments such as grabs, crushers and grapples
- A straight travel pedal can be installed to facilitate operation when moving in a straight line, to avoid having to use the conventional 2 pedals

Dynamic power management

- 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 low or idle
- 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

Floating boom function (optional)

- 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.



The quality you can rely on

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 40+ TON CLASS RELIABILITY

The DX380LC-3 is fitted with the a 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
- Track guards: two guards per track frame (standard) protect against track derailment. For extra reassurance, two dual-type track guards per track frame or full length track guards are available as options

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.

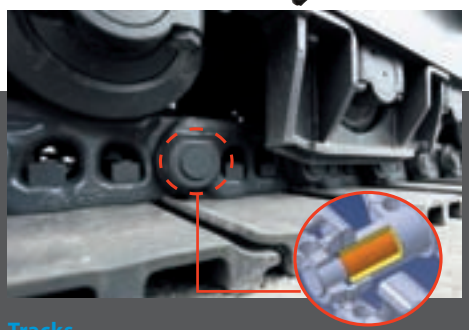
Arm assembly
Cast elements and reinforcements have been added to give the arm assembly greater strength and a longer lifetime. The arm centre and end boss have been strengthened and reinforced bars added to better protect the base of the arm.

Protected hydraulics
The hydraulic line routing is straight and simple for a neat, compact design that enhances its durability.
The gap between the pipe flange and rubber cushion has been reduced to minimise slack.

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.

Heavy-duty sprocket
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.

Integrated track spring and idler
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 to wear.

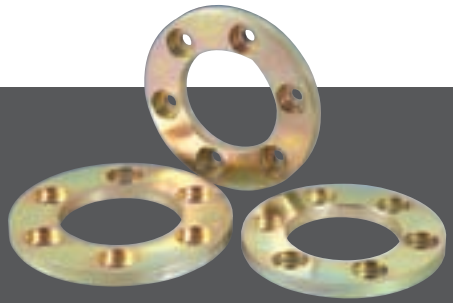


Tracks
For long-term dependability in all conditions, the chain is composed of sealed, self-lubricating links which are isolated from all external contamination. The tracks are locked by mechanically bolted pins. In areas subjected to great stress, the track link thickness has been reinforced.

The heavy-duty undercarriage provides excellent stability and durability. It is designed to excel in tough working environments.

Extra strong sintered bushings

A highly lubricated metal is used for the boom pivot to increase the component lifetime and extend the greasing intervals.
The bucket pivot features EM (Enhanced Macrosurface) bushings. These feature a tailored surface pattern and self-lubricating coating for optimised greasing and more efficient evacuation of debris.



Ultra hard wear-resistant discs

New materials have been used to enhance resistance to wear and to extend service intervals. Wear plates on the inside and the outside of the bucket lugs greatly increase disc lifetime.

Polymer shim

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. The DX380LC-3 is 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 parts can be easily reached via the top and side panels
- The radiator and oil cooler have been separated for easier cleaning
- 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

Protective oil return filter

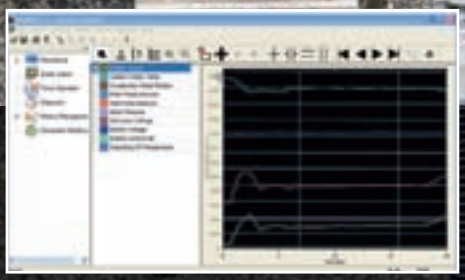
The protection of the hydraulic system is made more effective by the use of glass fibre technology in the main oil return filter. With more than 99.5% of foreign particles filtered out, the oil change interval is extended.

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.

Fuel pre-filter with water separator sensor

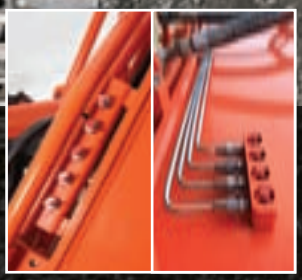
High efficiency fuel filtration is attained by the use of multiple filters. These include a fuel pre-filter fitted with a water separator that removes moisture, dirt and debris from the fuel. A warning sensor is added to each fuel filter to indicate when water draining is required.



PC monitoring
A PC monitoring function enables connection to the e-EPOS system. Thus, various parameters can be checked during maintenance, including pump pressures and engine speed.
This information can be saved and printed for analysis

Convenient fuse box
The fuse box is located in the storage compartment behind the seat, providing a clean environment and convenient access.

DPF regeneration switch
Regeneration is automatic and doesn't interfere with operation. When the level of soot is too high, a warning symbol alerts the operator that he can activate regeneration at any time.



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

Technical specifications

✱ Engine

• Model

Doosan DL08K
4-Cycle Water-Cooled, Variable Geometry Turbocharged, Common Rail Direct Injection, Exhaust Gas Recirculation

• No. of cylinders

6

• Rated power at 1800 rpm

290 PS (KS B 6537)
202 kW (275 PS) (DIN 6271)
213kW (286 HP) (SAE J1995)
202 kW (271 HP) (SAE J1349)

• Max. torque at 1300 rpm

130 kgf/m (1275 Nm)

• Idle (low - high)

800 - 1900 [+/-25] rpm

• Piston displacement

7640 cm^3

• Bore x stroke

108 mm x 139 mm

• Starter

24 V / 6.0 kW

• Batteries

2 x 12 V / 150 Ah

• Air filter

Double element and pre-filtered Turbo 3 cyclone 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 in auxiliary hydraulic circuits
- Computer-aided pump flow control
- Closed centre MCV (Main Control Valve) with electro-hydraulic pump control

• Main pumps

BENT AXIS

Max. flow:	2 x 360 l/min
Displacement:	200 cm^3/rev.
Weight:	180 kg

• Pilot pump

Gear pump – max. flow:	24.1 l/min
Displacement:	10.8 cm^3/rev.
Relief valve pressure:	40.8 kgf/cm^2

• Maximum system pressure

Boom/arm/bucket

Work/travel:	350 kg/cm^2 [+10/0]
Power:	370 kg/cm^2 [+10/0]

✱ Weight

Boom: 6500 mm • Arm: 3200 mm • GP Bucket: SAE 1.61 m^3 • Counterweight: 7400 kg

	Shoe width (mm)	Operating weight (t)	Ground pressure (kgf/cm^2)
Triple grouser	600 (Std)	39.2	0.71
	750	39.9	0.58
	800	40.2	0.55
	900	40.6	0.49
Double grouser	600	39.3	0.71

✱ 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

Upper rollers (standard shoe):	2
Lower rollers:	9
Number of links & shoes per side:	50
Overall track length:	5200 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	160 x 105 x 1450
Arm	1	170 x 120 x 1805
Bucket	1	150 x 100 x 1300

✱ Swing mechanism

- High-torque, axial piston motor with planetary reduction gear bathed in oil
- Swing circle: single-row, shear type ball bearing with induction-hardened internal gear
- Internal gear and pinion immersed in lubricant
- Max. swing speed: 0 to 9.5 rpm (Eff.=95%)
- Max. swing torque: 12577 kgf/m (Eff.=86%)

✱ 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)

3.05 / 5.5 km/h (Eff.=95.2 / 99.0%)

• Maximum traction (low - high)

17.9 / 36.9 t (Eff.=75 / 85%)

• Maximum gradeability

35° / 70%

✱ Fluid capacities

• Fuel tank

600 l

• Cooling system (radiator capacity)

52 l

• Hydraulic oil tank

380 l

• Engine oil

36 l

• Swing drive

6 l

• Travel device

2 x 7 l

✱ Environment

Noise levels comply with environmental regulations (dynamic values).

• Noise level LwA

Guaranteed / measured: 104 dB(A) / 102 dB(A) (2000/14/EC)

• Operator LpA

71 dB(A) (ISO 6396)

✱ Buckets

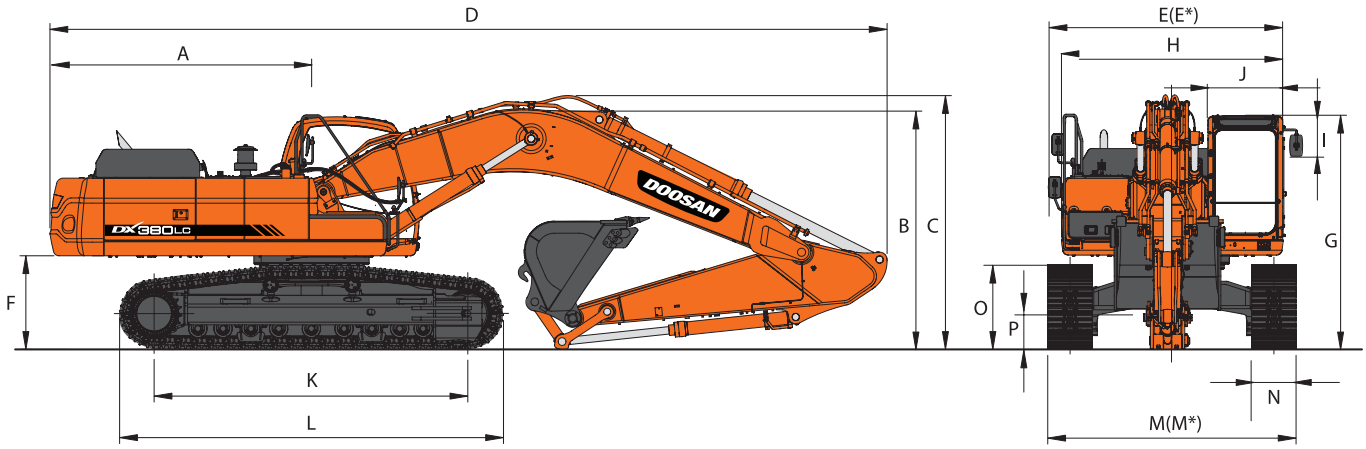
Bucket Type	Capacity (m^3)	Width (mm)		Weight (kg)	Boom: 6500 mm Standard track / Narrow track		
	SAE	With side cutters	Without side cutters		Arm: 2600 mm	Arm: 3200 mm	Arm: 3950 mm
GP	1.25	1278	1228	1249	A / A	A / A	A / B
	1.61	1550	1500	1392	A / A	A / A	A / C
	1.83	1718	1668	1522	A / B	A / B	B / D
HD	1.20	1134	1068	1303	A / A	A / A	A / A
	1.42	1286	1220	1428	A / A	A / A	A / B
	1.65	1438	1372	1526	A / A	A / B	A / C
	1.79	1526	1460	1609	A / B	A / B	A / D
	2.01	1676	1610	1706	A / B	B / C	C / D
Rock	1.37	-	1382	1451	A / A	A / A	A / B

Based on ISO 10567 and SAE J296, arm length without quick-coupler. For reference only.
A: Suitable for materials with a density less than or equal to 2100 kg/m^3
B: Suitable for materials with a density less than or equal to 1800 kg/m^3
C: Suitable for materials with a density less than or equal to 1500 kg/m^3
D: Suitable for materials with a density less than or equal to 1200 kg/m^3

✱ Digging forces (ISO)

DX380LC-3		Boom: 6500 mm Arm: 3200 mm Bucket: 1.61 m^3 Shoe: 600 mm	Boom: 6500 mm Arm: 3200 mm Bucket: 1.37 m^3 Shoe: 600 mm DG	Boom: 6500 mm Arm: 2600 mm Bucket: 1.83 m^3 Shoe: 600 mm	Boom: 6500 mm Arm: 3950 mm Bucket: 1.25 m^3 Shoe: 600 mm	Boom: 6500 mm Arm: 3200 mm Bucket: 1.61 m^3 Shoe: 800 mm
BUCKET (Normal/Press. Up)	t	24.4/25.9	24.8/26.3	24.4/25.9	24.4/25.9	24.4/25.9
	kN	239.3/254.0	243.2/257.9	239.3/254.0	239.3/254.0	239.3/254.0
ARM (Normal/Press. Up)	t	17.9/18.9	17.8/18.8	22.0/23.3	15.1/15.9	17.9/18.9
	kN	175.5/185.3	174.5/184.3	215.7/228.5	148.1/155.9	175.5/185.3

Dimensions



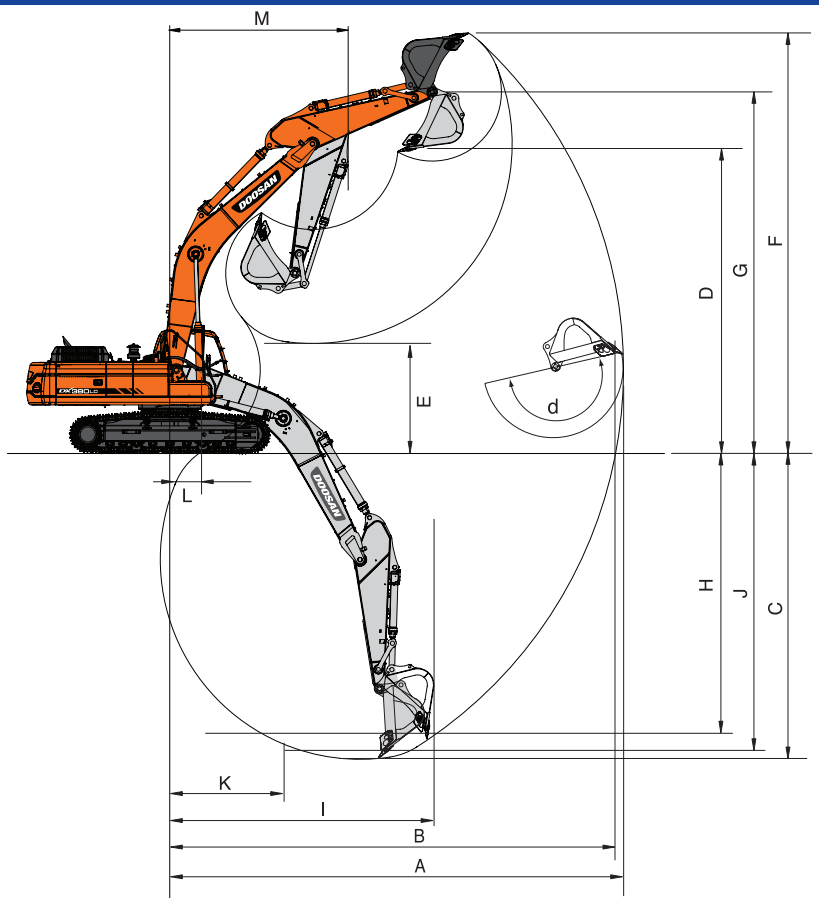
✱ Dimensions

		DX380LC-3				
Boom length - mm		Mono: 6500				
Arm length - mm		3200	3200	2600	3950	3200
Bucket capacity - m^3		1.61	1.37	1.83	1.25	1.61
A	Tail swing radius - mm	3500	3500	3500	3500	3500
B	Shipping height (boom) - mm	3225	3360	3505	3390	3225
C	Shipping height (hose) - mm	3390	3500	3650	3535	3390
D	Shipping length - mm	11280	11290	11375	11285	11280
E	Shipping width std. - mm	3350	3350	3350	3350	3350
E'	Shipping width narrow - mm	3000	3000	3000	3000	3000
F	Counterweight clearance - mm	1265	1276	1265	1265	1265
G	Height over cab - mm	3148	3148	3148	3148	3148
H	House width - mm	2990	2990	2990	2990	2990
I	Cab height above house - mm	845	947	845	845	845
J	Cab width - mm	1010	1010	1010	1010	1010
K	Tumbler distance - mm	4250	4250	4250	4250	4250
L	Track length - mm	5200	5200	5200	5200	5200
M	Undercarriage width std. - mm	3350	3350	3350	3350	3350
M'	Undercarriage width narrow - mm	3000	3000	3000	3000	3000
N	Shoe width std. - mm	600	600 DG	600	600	800
N'	Shoe width narrow - mm	500	500	500	500	500
O	Track height - mm	1140	1140	1140	1140	1140
P	Ground clearance - mm	540	555	540	540	540

✱ Component weights

Item	unit	DX380LC-3	Remarks
Upper structure without front	kg	16850	with counterweight
Counterweight	kg	7400	
Lower structure assembly	kg	14630	
Front assembly	kg	7801	
Boom (6500 mm)	kg	2766	including bushing
Arm (3200 mm)	kg	1315	including bushing
Bucket (1.61 m^3)	kg	1450	
Boom cylinder (each)	kg	659	
Arm cylinder	kg	435	
Bucket cylinder	kg	260	
Arm (2600 mm)	kg	1135	
Arm (3950 mm)	kg	1511	
Lower structure assembly	kg	14385	3 m narrow track

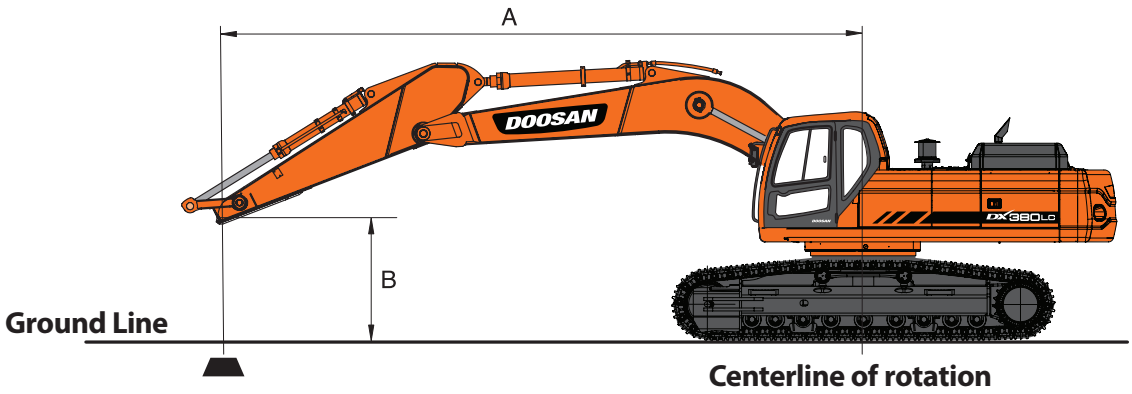
Working range



✱ Working range

		DX380LC-3				
Boom length - mm		Mono: 6500				
Arm length - mm		3200	3200	2600	3950	3200
Bucket capacity - m^3		1.61	1.37	1.83	1.25	1.61
A	Max. digging reach - mm	11170	11160	10585	11925	11170
B	Max. digging reach (ground) - mm	10970	10950	10360	11730	10955
C	Max. digging depth - mm	7460	7455	6860	8215	7460
D	Max. loading height - mm	7175	7250	6940	7705	7245
E	Min. loading height - mm	2710	2775	3385	2025	2780
F	Max. digging height - mm	10390	10250	10040	10890	10390
G	Max. bucket pin height - mm	8880	8950	8640	9410	8950
H	Max. vertical wall depth - mm	5890	5780	5020	6815	5815
I	Max. radius vertical - mm	7720	7785	7710	7780	7720
J	Max. digging depth (8´level) - mm	7345	7270	6630	8070	7275
K	Min. radius 8´line - mm	3320	3315	3270	3390	3315
L	Min. digging reach - mm	710	615	2100	-400	615
M	Min. swing radius - mm	4455	4455	4485	4520	4455
d	Bucket angle - °	178	178	178	178	178

Lifting capacities



Standard configuration

Standard track width: 3350 mm • Boom: 6500 mm • Arm: 3200 mm • W/O Bucket • Shoe: 600 mm • Counterweight: 7400 kg **Units: 1000 kg**

A (m) / B (m)	1.5		3.0		4.5		6.0		7.5		9.0		Max. lift		
															A (m)
7.5									*9.20	8.35			*7.78	*7.78	7.78
6.0									*9.64	8.26			*7.60	6.50	8.64
4.5					*14.86	*14.86	*11.90	11.27	*10.41	8.00	*9.00	5.97	*7.69	5.79	9.17
3.0					*18.90	16.21	*13.82	10.64	*11.41	7.68	8.94	5.83	*8.02	5.41	9.43
1.5					*21.69	15.21	*15.47	10.10	11.53	7.38	8.77	5.68	8.16	5.29	9.44
0 (Ground)					*22.53	14.81	15.90	9.76	11.30	7.17	8.66	5.58	8.38	5.40	9.21
-1.5			*15.35	*15.35	*22.02	14.76	15.75	9.63	11.2	7.08			9.05	5.81	8.71
-3.0	*18.17	*18.17	*23.86	*23.86	*20.36	14.91	*15.51	9.69	11.27	7.14			10.47	6.68	7.91
-4.5			*22.83	*22.83	*17.16	15.28	*12.98	9.96					*11.16	8.67	6.66

Option 1

Standard track width: 3350 mm • Boom: 6500 mm • Arm: 2600 mm • W/O Bucket • Shoe: 600 mm • Counterweight: 7400 kg **Units: 1000 kg**

A (m) / B (m)	3.0		4.5		6.0		7.5		Max. lift		
											A (m)
7.5									*10.53	9.10	7.05
6.0					*11.33	11.33 *	10.50 *	8.16	*10.43	7.33	7.99
4.5			*16.65	*16.65	*12.89	11.11	11.13 *	7.94	9.80	6.44	8.56
3.0					*14.69	10.52	11.82	7.65	9.17	5.99	8.84
1.5					*16.09	10.06	11.54	7.4	9.02	5.86	8.86
0 (Ground)			*21.70	14.91	15.94	9.82	11.36	7.24	9.31	6.01	8.61
-1.5	*15.84	*15.84	*21.46	14.97	15.88	9.76	11.32	7.21	10.2	6.55	8.08
-3.0	*24.88	*24.88	*19.29	15.19	*14.90	9.89			*11.88	7.75	7.20
-4.5	*19.39	*19.39	*15.24	*15.24					*11.65	10.78	5.80

Option 2

Standard track width: 3350 mm • Boom: 6500 mm • Arm: 3950 mm • W/O Bucket • Shoe: 600 mm • Counterweight: 7400 kg **Units: 1000 kg**

A (m) / B (m)	1.5		3.0		4.5		6.0		7.5		9.0		Max. lift		
															A (m)
9.0													*6.73	*6.73	7.38
7.5													*5.69	*5.69	8.69
6.0									*8.59	8.40	*7.48	6.16	*5.54	*5.54	9.46
4.5							*10.55	*10.55	*9.45	8.10	*8.83	6.03	*5.57	5.06	9.95
3.0					*16.69	*16.69	*12.59	10.81	*10.56	7.74	8.96	5.84	*5.75	4.76	10.19
1.5					*20.17	15.44	*14.50	10.17	11.55	7.38	8.75	5.64	*6.10	4.65	10.2
0 (Ground)			*9.38	*9.38	*21.95	14.75	*15.82	9.71	11.24	7.10	8.57	5.48	*6.67	4.72	9.99
-1.5	*9.94	*9.94	*14.04	*14.04	*22.21	14.50	15.59	9.48	11.06	6.94	8.49	5.41	*7.61	5.01	9.54
-3.0	*14.97	*14.97	*20.03	*20.03	*21.24	14.54	15.55	9.44	11.04	6.92			8.81	5.62	8.80
-4.5	*21.04	*21.04	*26.32	*26.32	*18.92	14.81	*14.32	9.60	*10.77	7.09			*10.23	6.86	7.70
-6.0			*19.52	*19.52	*14.40	*14.40	*10.22	10.07					*10.02	9.96	6.05

Option 3

Standard track width: 3350 mm • Boom: 6500 mm • Arm: 3200 mm • W/O Bucket • Shoe: 800 mm • Counterweight: 7400 kg **Units: 1000 kg**

A (m) / B (m)	1.5		3.0		4.5		6.0		7.5		9.0		Max. lift		
															A (m)
7.5									*9.20	8.54			*7.78	*7.78	7.78
6.0									*9.67	8.45			*7.60	6.67	8.64
4.5					*14.90	*14.90	*11.93	11.53	*10.44	8.20	*9.01	6.13	*7.69	5.95	9.17
3.0					*18.95	16.60	*13.86	10.90	*11.44	7.88	9.18	5.99	*8.03	5.57	9.43
1.5					*21.75	15.62	*15.51	10.37	11.84	7.59	9.02	5.84	8.39	5.45	9.44
0 (Ground)					*22.59	15.22	16.33	10.04	11.61	7.38	8.91	5.74	8.62	5.56	9.21
-1.5			*15.35	*15.35	*22.08	15.16	16.18	9.91	11.51	7.29			9.30	5.98	8.71
-3.0	18.17 *	18.17 *	*23.86	*23.86	*20.42	15.31	*15.56	9.96	11.58	7.35			10.76	6.87	7.91
-4.5			*22.90	*22.90	*17.22	15.68	*13.02	10.22					*11.19	8.90	6.66

Option Narrow 1

Narrow track width: 3000 mm • Boom: 6500 mm • Arm: 3200 mm • W/O Bucket • Shoe: 600 mm • Counterweight: 7400 kg **Units: 1000 kg**

A (m) / B (m)	1.5		3.0		4.5		6.0		7.5		9.0		Max. lift		
															A (m)
7.5									*9.20	7.30			*7.78	6.84	7.78
6.0									*9.64	7.21			*7.60	5.65	8.64
4.5					*14.86	*14.86	*11.90	9.77	*10.41	6.96	*9.00	5.18	*7.69	5.01	9.17
3.0					*18.90	13.74	*13.82	9.17	*11.41	6.65	8.89	5.04	*8.02	4.67	9.43
1.5					*21.69	12.80	*15.47	8.65	11.48	6.36	8.73	4.89	8.12	4.56	9.44
0 (Ground)					*22.53	12.42	15.82	8.32	11.24	6.15	8.62	4.79	8.34	4.64	9.21
-1.5			*15.35	*15.35	*22.02	12.37	15.67	8.20	11.14	6.06			9.00	4.99	8.71
-3.0	*18.17	*18.17	*23.86	*23.86	*20.36	12.51	*15.51	8.25	11.21	6.13			10.42	5.74	7.91
-4.5			*22.83	*22.83	*17.16	12.86	*12.98	8.51					*11.16	7.44	6.66

Option Narrow 2

Narrow track width: 3000 mm • Boom: 6500 mm • Arm: 2600 mm • W/O Bucket • Shoe: 600 mm • Counterweight: 7400 kg **Units: 1000 kg**

A (m) / B (m)	3.0		4.5		6.0		7.5		Max. lift		
											A (m)
7.5									*10.54	7.84	7.11
6.0					*11.33	10.13	*10.50	7.11	*10.43	6.39	7.99
4.5			*16.65	14.67	*12.89	9.62	*11.13	6.90	9.76	5.59	8.56
3.0					*14.69	9.06	11.77	6.62	9.13	5.18	8.84
1.5					*16.09	8.62	11.48	6.38	8.98	5.05	8.86
0 (Ground)			*21.70	12.52	15.86	8.38	11.30	6.22	9.27	5.18	8.61
-1.5	*15.84	*15.84	*21.46	12.57	15.80	8.33	11.27	6.19	10.15	5.64	8.08
-3.0	*24.88	*24.88	*19.29	12.79	*14.90	8.45			*11.88	6.67	7.20
-4.5	*19.39	*19.39	*15.24	13.23					*11.65	9.24	5.80

1. Lifting capacities are in compliance with ISO 10567.
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. Weight of all lifting accessories must be deducted from or added to the above lifting capacities.
6. The configurations indicated do not necessarily reflect the standard equipment of the machine.

: Rating over front
: Rating over side or 360°

Lifting capacities

Option Narrow 3

Narrow track width: 3000 mm • Boom: 6500 mm • Arm: 3950 mm • W/O Bucket • Shoe: 600 mm • Counterweight: 7400 kg **Units: 1000 kg**

A (m) / B (m)	1.5		3.0		4.5		6.0		7.5		9.0		Max. lift		
															A (m)
9.0													*6.10	*6.10	7.54
7.5													*5.69	*5.69	8.69
6.0									*7.31	6.74	*7.48	5.36	*5.54	4.87	9.46
4.5									*8.04	6.47	*8.83	5.23	*5.57	4.37	9.95
3.0					*14.18	13.13	*10.71	8.58	*8.98	6.13	8.92	5.04	*5.75	4.09	10.19
1.5					*17.22	11.95	*12.36	7.98	*9.92	5.80	8.70	4.85	*6.10	3.99	10.20
0 (Ground)			*9.20	*9.20	*18.81	11.30	*13.51	7.55	9.69	5.54	8.53	4.70	*6.67	4.04	9.99
-1.5	*9.72	*9.72	*13.81	*13.81	*19.08	11.07	13.38	7.33	9.52	5.38	8.45	4.62	*7.61	4.28	9.54
-3.0	*14.73	*14.73	*19.72	*19.72	*18.28	11.09	13.33	7.29	9.49	5.36			8.77	4.81	8.80
-4.5	*20.73	*20.73	*22.77	22.42	*16.32	11.32	*12.33	7.42	*9.28	5.50			*10.23	5.88	7.70
-6.0			*16.99	*16.99	*12.52	11.81	*8.94	7.83					*10.02	8.52	6.05

Option Narrow 4

Narrow track width: 3000 mm • Boom: 6500 mm • Arm: 3200 mm • W/O Bucket • Shoe: 800 mm • Counterweight: 7400 kg **Units: 1000 kg**

A (m) / B (m)	1.5		3.0		4.5		6.0		7.5		9.0		Max. lift		
															A (m)
7.5									9.20 *	7.45			*7.78	6.98	7.78
6.0									9.64 *	7.36			*7.60	5.78	8.64
4.5					14.86 *	14.86 *	11.90 *	9.98	10.41 *	7.11	*9.00	5.30	*7.69	5.13	9.17
3.0					18.90 *	14.03	13.82 *	9.37	11.41 *	6.8	9.12	5.16	*8.02	4.79	9.43
1.5					21.69 *	13.09	15.47 *	8.85	11.76	6.51	8.95	5.02	8.33	4.67	9.44
0 (Ground)					22.53 *	12.72	16.22	8.52	11.53	6.3	8.84	4.92	8.55	4.76	9.21
-1.5			15.35 *	15.35 *	22.02 *	12.66	16.07	8.4	11.43	6.22			9.23	5.11	8.71
-3.0	18.17 *	18.17 *	23.86 *	23.86 *	20.36 *	12.81	15.51 *	8.45	11.5	6.28			10.68	5.88	7.91
-4.5			22.83 *	22.83 *	17.16 *	13.16	12.98 *	8.71					*11.16	7.62	6.66

Option Narrow 5

Narrow track width: 3000 mm • Boom: 6500 mm • Arm: 3950 mm • W/O Bucket • Shoe: 800 mm • Counterweight: 7400 kg **Units: 1000 kg**

A (m) / B (m)	1.5		3.0		4.5		6.0		7.5		9.0		Max. lift		
															A (m)
9.0									*6.27	*6.27			*6.10	*6.10	7.54
7.5													*5.69	*5.69	8.69
6.0									*8.59	7.50	*7.48	5.36	*5.54	4.87	9.46
4.5							*10.55	10.2	*9.45	7.21	*8.83	5.23	*5.57	4.37	9.95
3.0					*16.69	14.51	*12.59	9.53	*10.56	6.85	8.92	5.04	*5.75	4.09	10.19
1.5					*20.17	13.30	*14.50	8.91	*11.65	6.50	8.70	4.85	*6.10	3.99	10.20
0 (Ground)			*9.38	*9.38	*21.95	12.64	*15.82	8.47	11.47	6.23	8.53	4.70	*6.67	4.04	9.99
-1.5	*9.94	*9.94	*14.04	*14.04	*22.21	12.41	15.91	8.24	11.29	6.08	8.45	4.62	*7.61	4.28	9.54
-3.0	*14.97	*14.97	*20.03	*20.03	*21.24	12.45	15.87	8.21	11.27	6.06			8.77	4.81	8.80
-4.5	*21.04	*21.04	*26.32	25.06	*18.92	12.70	*14.32	8.36	*10.77	6.22			*10.23	5.88	7.70
-6.0			*19.52	*19.52	*14.40	13.23	*10.22	8.81					*10.02	8.52	6.05

1. Lifting capacities are in compliance with ISO 10567.
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. Weight of all lifting accessories must be deducted from or added to the above lifting capacities.
6. The configurations indicated do not necessarily reflect the standard equipment of the machine.

: Rating over front
: Rating over side or 360°

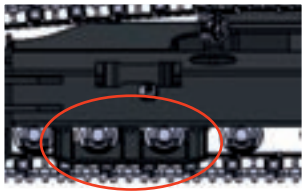
Standard and optional equipment

* Standard equipment

Hydraulic system
Boom and arm flow regeneration
Swing anti-rebound valves
Spare ports (valve)
One-touch power boost
Breaker piping
Cylinder cushioning & contamination seals
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
Air conditioning with climate control
Pull-up type front window with sun roller blind and removable lower front window
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 protection
Hot and cool box
Fuel control dial
7" (18 cm) LCD colour monitor panel
Engine speed (RPM) control dial
Speed regulator (auto-idle)
Automatic rear window defroster
4 operating modes & 4 working modes
Control of auxiliary hydraulic flow
Remote radio ON/OFF switch
12 V spare 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 and auxiliary hydraulic buttons
USB port
Loudspeakers and connections for radio
DPF regeneration switch
Sliding left front and rear windows with lock
Tool storage area
Travel pedals and hand levers
Master key
Safety
Boom and arm cylinder safety valves
Overload warning device
Large handrails and step
Rotating beacon
Rear view camera
Punched metal anti-slip plates
Hydraulic safety lock lever
Safety glass
Hammer for emergency escape
Right and left rearview mirrors
Emergency engine stop
Reinforced cast steel pivot points
Lockable fuel cap and covers
Battery cut-off switch
Halogen work lights (2 front frame, 4 front cab-mounted, 2 rear cab-mounted, 2 boom-mounted and 1 rear side)
Other
Mono boom: 6500 mm – arm: 3200 mm
Counterweight: 7400 kg
DOOSAN DL08K turbocharged, Common Rail direct injection, EU Stage IIIB compliant Diesel engine combined with e-EPOS System
Auto shut-off fuel filler pump
Double element air cleaner and pre-filtered Turbo 3 cyclone dust separator
Fuel pre-filter with water separator sensor
Dry type pre-cleaner
Diesel particulate filter
Dust screen for radiator/oil cooler
Engine overheat prevention system
Engine restart prevention system
Self-diagnostic function
Alternator (12 V, 80 A)
Electric horn
Hydrostatic 2-speed travel system with automatic shift
Remote greasing for swing circle and workgroup pivot points
Attachment management system
Pilot control pattern change
Guards for work lights
Undercarriage
Hydraulic track adjuster
Normal track guards
Greased and sealed track links
600 mm triple grouser shoe

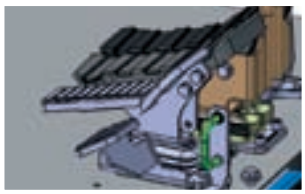
* Optional equipment

Cab & Interior
MP3/USB radio or MP3/USB radio with CD player
Safety
FOGS cab - top and front cab guards (ISO 10262)
Front window upper and lower guards
Side view camera
Other
Arms: 2600 mm or 3950 mm
Heavy-duty bottom cover
Doosan buckets: full range of GP, HD & Rock buckets
Doosan breakers 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
Oil-washed air cleaner
Straight travel pedal
Telescopic rotating beacon
Full length track guard
Dual-type track guard
Bio oil
Automatic lubrication system
Toolkit and spare parts for first service
Undercarriage
Narrow undercariage 3000 mm
600 mm double grouser shoe & 750, 800 & 900 mm triple grouser shoe



Dual-type track guard
A newly designed dual guiding track guard is available to maintain track alignment.

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



Straight travel pedal
Allows more operator comfort when multi-tasking.

Oil-washed air cleaner
Increases cleaning of the air intake in extra dusty areas such as quarries.

Doosan buckets
A range of dependable new Doosan buckets is available to cover several applications.

Doosan breakers and quick-couplers
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

The pulse of transformation

Construction Equipment

Machine Tools

Engines

The spirit of challenge and innovation has led Doosan. We started out as a small store in Seoul in 1896 and have expanded into a global company. Today we are engaged in the infrastructure support business (ISB), which encompasses industrial facilities, machinery, heavy equipment and construction. You can also see the Doosan brand in various other industries.

You are invited to take a closer look at the new world that is being built by Doosan, visit us at:
www.doosaninfracore.com and www.doosanequipment.eu

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Doosan Infracore Financial Services (DI FS) is specialised in creating financing solutions to meet a wide variety of needs.
Contact your local dealer for more information.

Always a dealer near you

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

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Doosan Infracore Construction Equipment - Drève Richelle 167 - B-1410 Waterloo, Belgium