

DOOSAN

Construction Equipment

DL200-2

Engine Power	SAE J1995, gross 109 kW (146 HP) @ 2,100 rpm
Operational Weight	11,400 kg (25,133 lb)
Bucket Capacity (SAE)	1.9 ~ 4.0m ³ (2.5 ~ 5.2 yd ³)



DOOSAN DL200-2 WHEEL LOADER :

A POWERFUL WHEEL LOADER WITH LOW OWNING AND OPERATING COST

DL200-2

THE NEW DL200-2 WHEEL LOADER IS DESIGNED SPECIFICALLY TO HANDLE ALL THE JOBS ON YOUR WORK SITE, AND NOW OFFERS INCREASED DURABILITY TO THE OPERATOR.

The new DL200-2 was developed with the concept of “providing optimum value to the end user.”

INCREASED PRODUCTION, due to the use of a Doosan (in-house) engine and the excellent synchronisation of the drive train with the hydraulics system

IMPROVED ERGONOMICS, increased comfort and excellent all round visibility ensuring safe and pleasant working conditions.

IMPROVED RELIABILITY, through the use of higher performance new materials, the development of new computer-assisted structural design techniques and by intensive and systematic test programs. All of these combine to increase the life of vital components and reduce operating costs.





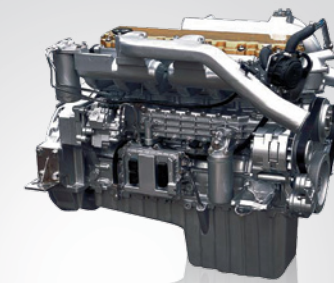
PERFORMANCE & PRODUCTIVITY

DL200-2

Perfect integration of power and intelligence. When exceptional power is combined with the very best workmanship, the wheel loader reaches the peak of its performance. The DL200-2 loader gives you outstanding productivity. The reason is, on the one hand, the impressive digging power allows the hardest materials to be tackled and, and on the other, high tractive power enables easy penetration. With a powerful hydraulic system, the operator can work quickly and powerfully. At the heart of the loader is the Doosan DL06 (in-house) electronic engine.

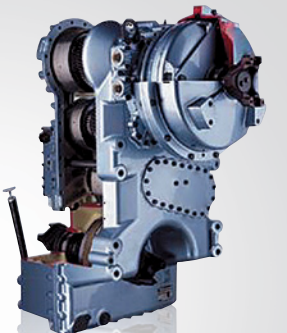


DOOSAN ENGINE (DL06)



The engine features excellent power and torque characteristics. With 4 valves per cylinder and electronic control, combustion is optimised and reduced emissions minimise pollution. Increased torque and a generous torque reserve allow efficient use of power by the hydraulic system. High torque means high maneuverability of the loader when moving. The engine has two modes of operation: "power" or "standard".

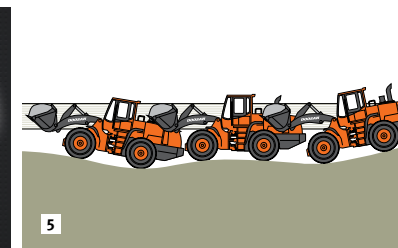
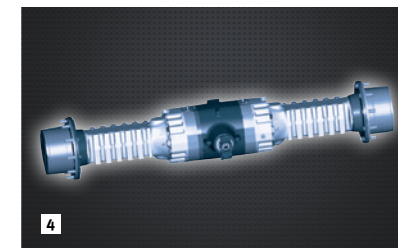
AUTOMATIC TRANSMISSION



The transmission is particularly smooth and the gear ratios are optimised. There are no shocks, resulting in an appreciable level of comfort for the operator. The traction force is optimum under all working conditions. The combination of these characteristics enables the loader to maintain high speed under all conditions and favours penetration and thus optimum bucket filling at each cycle.

The transmission has three modes of operation:

- Manual
- Automatic (automatic shift for all gears)
- Semi - Automatic (automatic with a "kick down" for first gear)



1 HIGH LIFT (OPTIONAL)

As High Lift is equipped besides Standard Lift, customers have further options.

2 Z KINETICS

The Z lifting geometry is very robust and especially designed for heavy loads. Few moving parts, reduced loads, simplicity, everything contributes to good loader stability. This geometry enables very rapid bucket movements and ensures correct angle positioning in all situations. The rapid bucket dump capability makes it easier to unload adhesive materials.

3 REINFORCED AXLE FOR HEAVY DUTY OPERATION

Even hard working condition reinforced axle deliver best reliability to customer. Increased torque capacity give better reliability and performance. Reinforced axle is strong in long hour operation.

4 LIMITED SLIP DIFFERENTIAL

The machines axles are fitted with limited slip differentials at the front and rear. This automatically ensures the maximum tractive effort and easy driving over soft and muddy ground. It also reduces the risk of skidding and, at the same time, prevents excessive tyre wear.

5 LOAD ISOLATION SYSTEM (OPTIONAL)

This system is ideal for all loading and movement situations and increases driver productivity and comfort. It also minimises the amount of material spilt during travelling.

6 HYDRAULIC POWER STEERING

The newly designed steering system ensures smooth steering even in the low engine speed ranges.

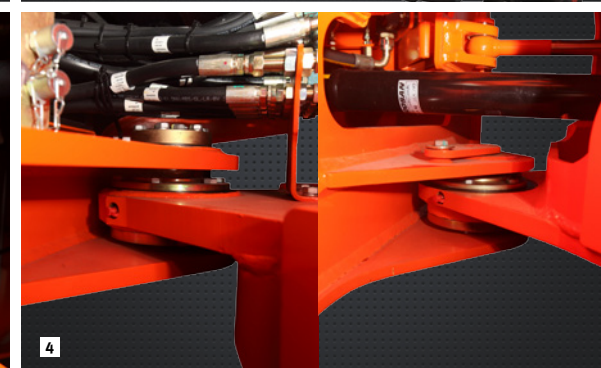
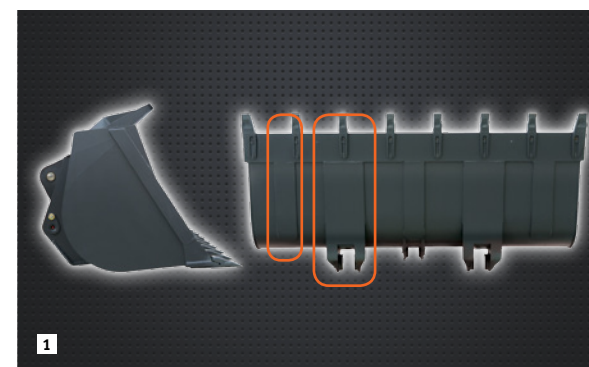
- Steering control valve



DURABILITY & RELIABILITY

DL200-2

Because the operator knows that the DOOSAN loader is a tough, reliable, product with large power reserves, it can be relied on to work for long periods. For DOOSAN, reliability means above all durability, availability, accessibility and simplicity.



1 REINFORCED BUCKET

The bottom of the bucket are reinforced.

2 RADIATOR GRILL

The radiator grill is made from reinforced steel for increased shock resistance.

3 DURABLE HYDRAULIC HOSE

Parker hydraulic hose can improve durability of high pressure

4 CENTRAL JOINTS

The central joints of the machine are particularly robust. The attachment points are positioned to withstand bending and torsion forces. A large amount of space has been left to allow easy access to internal components.

5 FRONT COMBINATION LAMP

With the application of high-grade Hella products, the lamp life has extended much more.

6 REAR COMBINATION LAMP

A semi-permanent lamp life has been secured with the application of LED-type stop and position lamps.



OPERATOR COMFORT

DL200-2

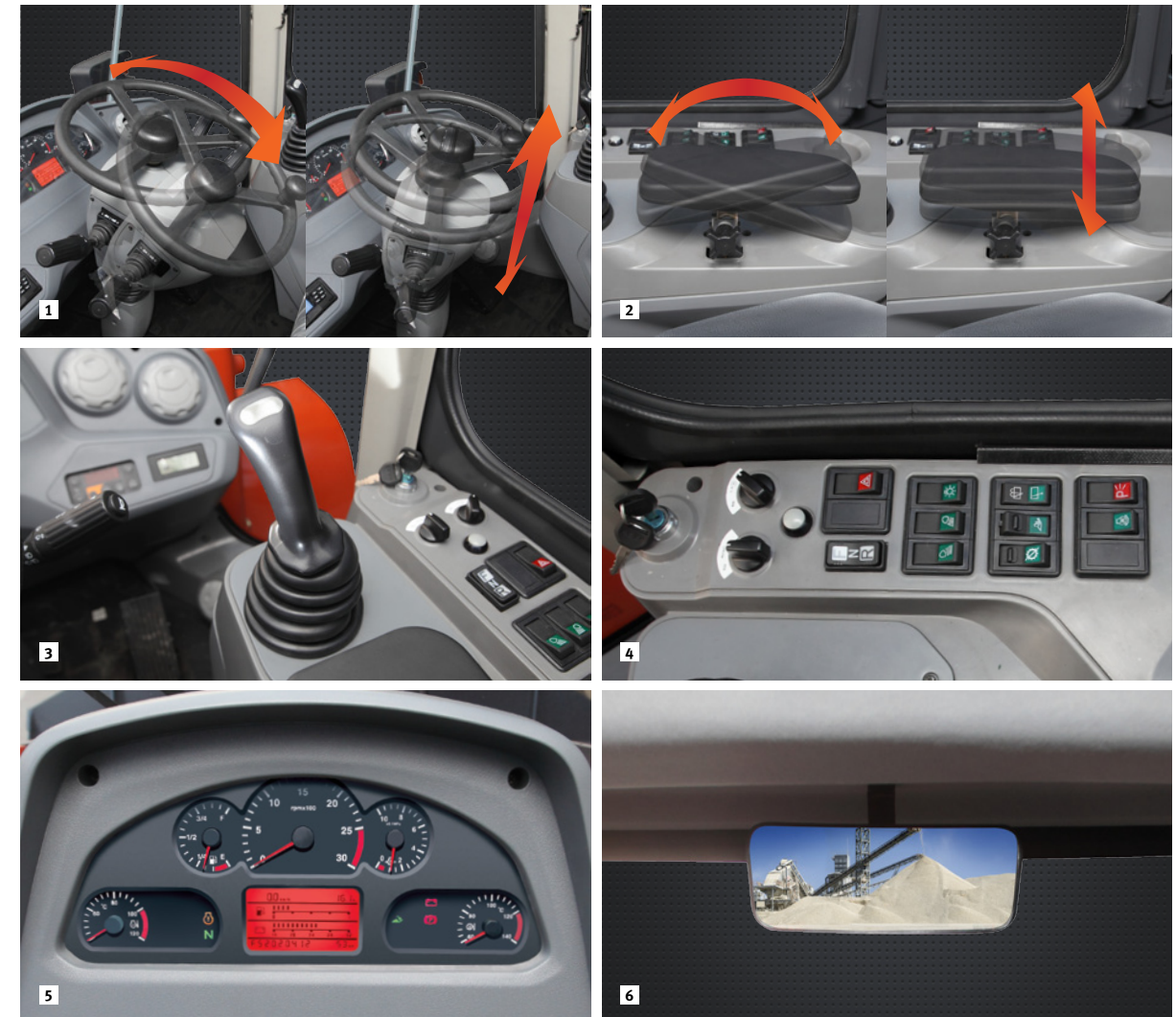
A perfect workspace has been created for you. The work rate of the wheel loader is directly linked to the performance of its operator. DOOSAN designed the DL200-2 by putting the operator at the centre of their development goals. More space, better visibility, air conditioning, a very comfortable seat, sufficient storage space... All these elements ensure that the operator can work for hours in excellent conditions.

VISIBILITY

Visibility has been improved in all directions and the size of the cab has been increased.

AIR CONDITIONING

The high performance air conditioning system provides an air flow which is adjusted and electronically controlled according to the conditions. A double air filter protects the operator's environment. The comfort is comparable to that of a new car.



1 STEERING COLUMN

The steering column features both tilting and telescopic functions.

2 ARM REST

Correct positioning with clear controls makes the operator's task easier.

3 CONTROL LEVERS (OPTIONAL)

The control levers are very precise. Different options are available to match what the operator is accustomed to as well as an optional auxiliary lever.

4 LATERAL CONSOLE

The control console is thoughtfully placed to the right of the operator. Provision is provided to fit switches for additional equipment if required.

5 CENTRAL INDICATOR PANEL

A high visibility indicator panel allows the operator to check essential loader functions.

6 ROOM MIRROR (STANDARD)



EASY MAINTENANCE

DL200-2

Short, simple maintenance operations at long intervals increase the availability of the equipment on site. DOOSAN has developed the DL200-2 with a view to high profitability for its user. A detailed design of each detail guarantees optimum reliability and reduced maintenance costs.

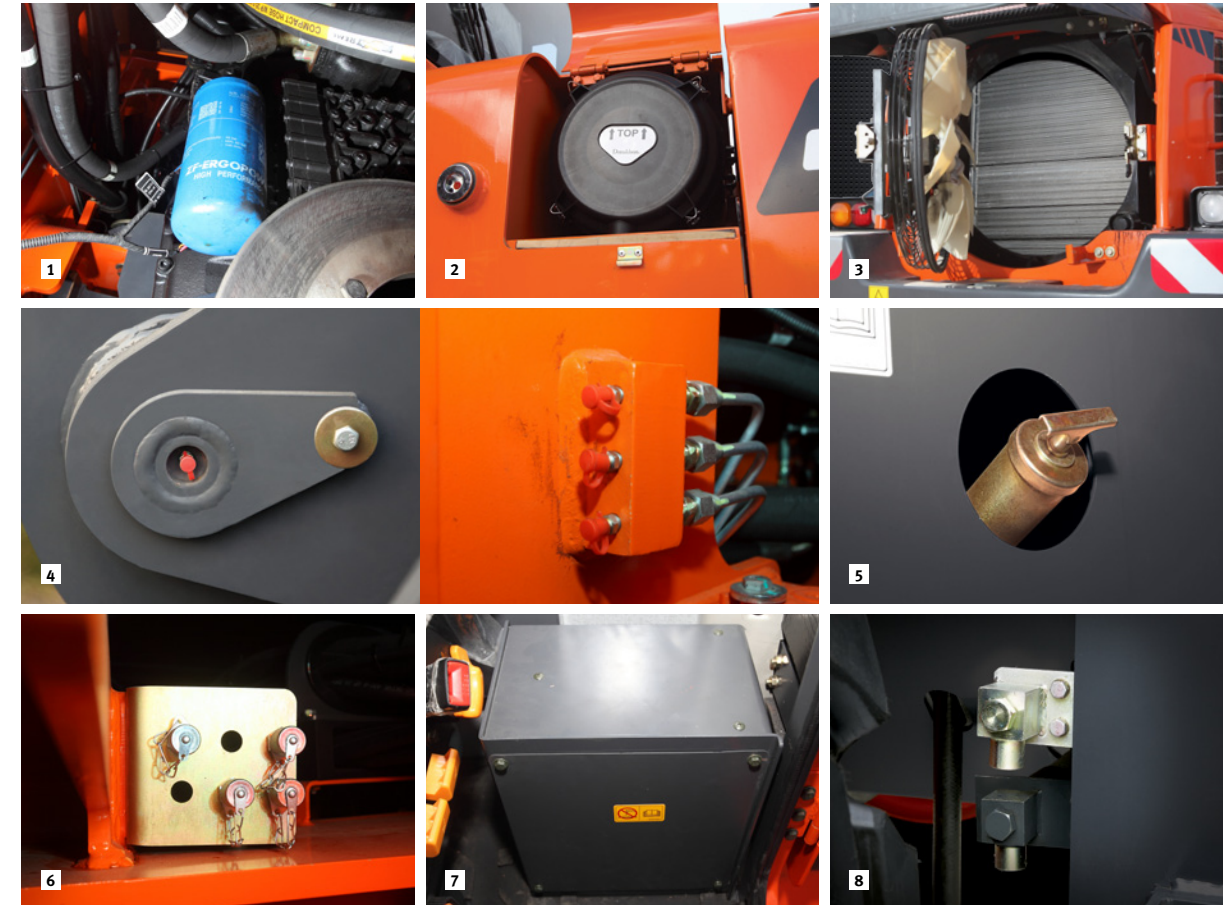


HYDRAULIC OIL RETURN FILTER

The high-efficiency, large-capacity return filter manufactured with the glass-fiber media can eliminate foreign substances up to 99.5 percent to protect the costly hydraulic equipment and substantially extend the replacement cycle.

EASY FILL RADIATOR RESERVE TANK

The hole is located on the grill to easy reach and fill the radiator reserve tank. allow easy access to internal components.



1 TRANSMISSION FILTER

The transmission filters are within easy reach and like the rest of the machine's service components, can be checked from ground level.

2 AIR-CLEANER FILTER

The forced air cleaner removes 99.9% of particles. It is preceded by a high capacity pre-filter. The cleaning and cartridge replacement intervals are very long.

3 REVERSIBLE FAN

The radiator fan has a reversible flow capability to make cleaning of the coolers easier when the machine is operating in dusty environments.

4 GREASING LUBRICATION PORTS

Rear axle pivot and propeller shaft can be lubricated from the outside of the machine without crawling under the machine or in awkward positions through the lubrication ports.

5 CONVENIENT TRANSMISSION OIL FILLING

The oil filler pipe is located near the articulation joint for easy access.

6 HYDRAULIC PRESSURE CHECK POINTS

The pressure test points are grouped together. (Main pressure, steering, braking etc).

7 TRANSMISSION DIAGNOSIS

The transmission can be diagnosed using a laptop computer to interface with the diagnostic system

8 ENGINE OIL AND COOLANT DRAINS

Drains are installed in very accessible places to facilitate emptying without the risk of polluting the environment.



TELEMATICS SERVICE (OPTIONAL)

TELECOMMUNICATIONS

Data flow from machine to web



TELEMATICS SERVICE TERMINAL



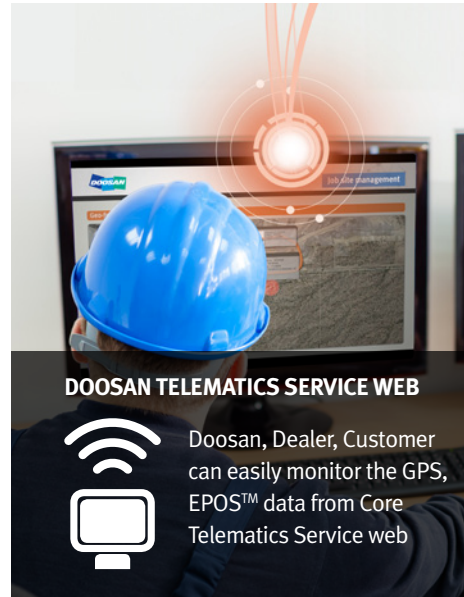
Telematics Service terminal is installed to machine / connected to EPOS™



TELECOMMUNICATION



GPS, EPOS™ data is sent to designated server by GSM, Satellite telecommunication



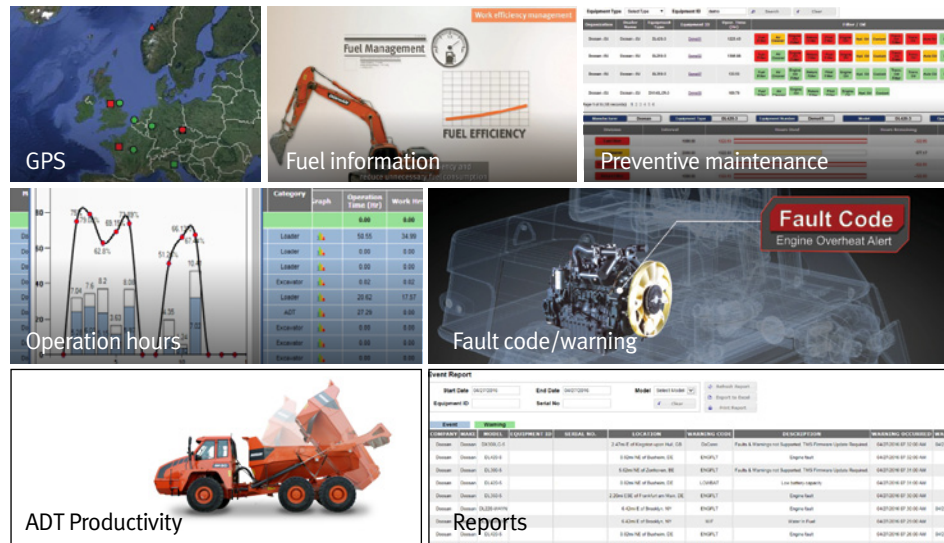
DOOSAN TELEMATICS SERVICE WEB



Doosan, Dealer, Customer can easily monitor the GPS, EPOS™ data from Core Telematics Service web

FUNCTIONS

Doosan Telematics Service provides various functions to support your great performance



TELEMATICS SERVICE BENEFITS

Doosan and dealer support customers to improve work efficiency with timely and responsive services

Customer

Improve work efficiency

- Timely and preventive service
- Improve operator's skills by comparing work pattern
- Manage fleet more effectively

Dealer

Better service for customers

- Provide better quality of service
- Maintain machine value
- Better understanding of market needs

Doosan

Responsive to customer's voice

- Utilize quality-related field data
- Apply customer's usage profile to developing new machine

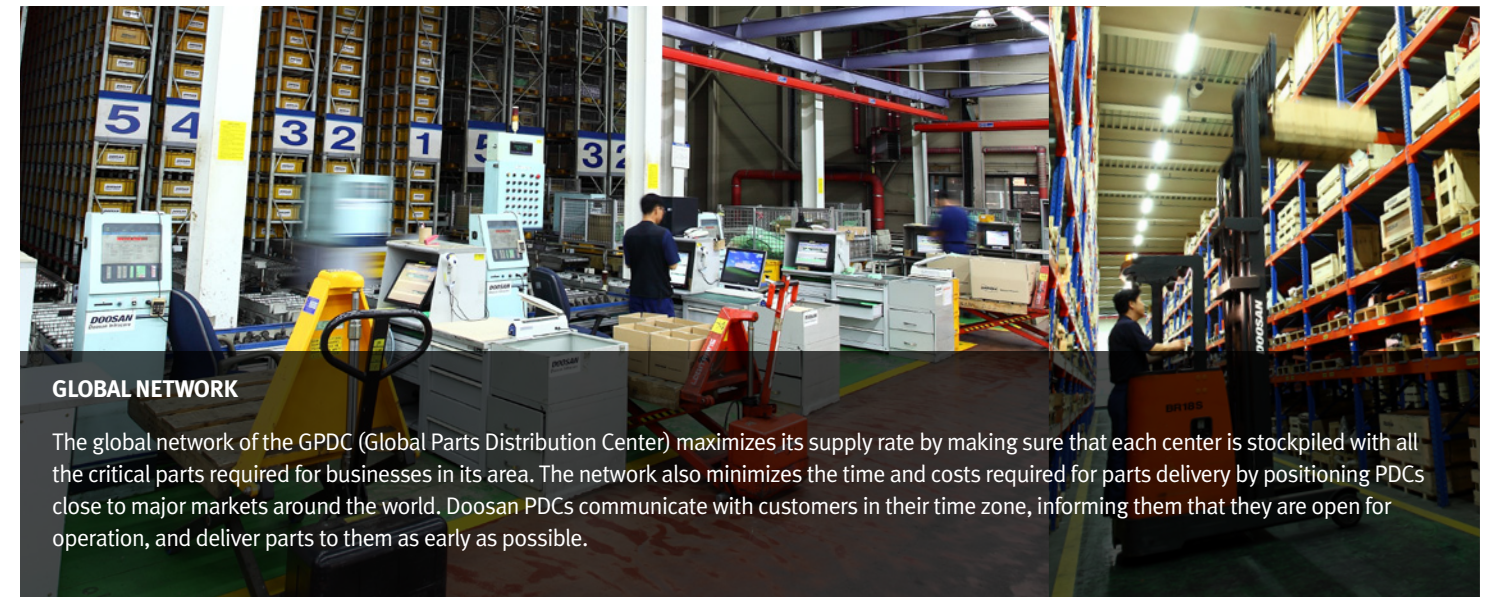
	FUNCTION	EXCAVATOR	WHEEL LOADER	ADT
GPS	· Location · Geo-fence	All models	All models	All models
E-mail reports	· Daily, Weekly, Monthly report	All models	All models	All models
Operation hours	· Total operation hours · Operation hours by mode	All models Tier 4 only	All models Tier 4 only	All models
Maintenance parts	· Preventive maintenance by item replacement cycle	All models	Tier 4 only	All models
Fault code/ Warning	· Fault code · Machine Warnings on Gauge Panel	All models	Tier 4 only	All models
Fuel information	· Fuel level · Fuel consumption	All models Tier 4 only	Tier 4 only	All models
Dump capacity	· Dump tonnage · Count of Work Cycle	N/A	N/A	All models



GLOBAL PARTS NETWORK

GLOBAL PDC (PARTS DISTRIBUTION CENTER) NETWORK

Doosan provides fast and precise worldwide delivery of genuine Doosan parts through its global PDC (parts distribution center) network.



GLOBAL NETWORK

The global network of the GPDC (Global Parts Distribution Center) maximizes its supply rate by making sure that each center is stockpiled with all the critical parts required for businesses in its area. The network also minimizes the time and costs required for parts delivery by positioning PDCs close to major markets around the world. Doosan PDCs communicate with customers in their time zone, informing them that they are open for operation, and deliver parts to them as early as possible.

The Global Parts Distribution Center Network

PDCs had been set up as shown below, including Mother PDC in Ansan, Korea. The seven other PDCs include one in China (Yantai), one in the USA (Chicago), one in Brazil (Campinas), two in Europe (Germany and the UK), one in the Middle East (Dubai), and one in Asia (Singapore).



MPDC : Mother Parts Distribution Center



PDC : Parts Distribution Center

PDC BENEFIT



Distribution Cost Reduction



Maximum Parts supply rate



Shortest distance/time parts delivery



Real-time service support



Minimum downtime

TECHNICAL SPECIFICATIONS

ENGINE

Model
Doosan DL06
Number of cylinders
6
Rated power
109 kW(146 HP) @ 2,100 rpm (SAE J1995, gross)
Maximum torque
686 Nm @ 1,400 rpm
Piston displacement
5,900 cc
Bore & stroke
Ø 100 x 125 mm
Alternator
24 V / 60 A
Batteries
System voltage : 24 V Quantity : 12 V x 2 Capacity (AMP) : 100 Ah
Air cleaner
Dry, Double Element
Cooling
The hydraulic motor fan direction is reversible to facilitate cleaning.

TRANSMISSION

The "Power Shift" transmission can be used in manual mode,fully automatic or semi-automatic with the "kick down"function. This transmission is based on components of excellent reputation. It is equipped with a modulation system designed to protect it and ensure smooth gear and direction changes. A manual transmission control lever is located to the left of the operator. In automatic or semi-automatic mode a change of direction function is also available. The transmission can be disengaged by the brake pedal to make all the engine power available for the hydraulics. A safety device prevents the engine being started if the transmission is not in neutral. The transmission can be tested and adjusted with special equipment. A computer can be connected to monitor the history of its operation.

Torque converter
Type : 4Speed full auto (standard) Stall ratio : 2.911
Travel speed, kph
Forward : 7.0 - 12.5 - 24.0 - 37.5 Reverse : 7.5 - 13.5 - 25.5
Maximum traction
8 ton

LIFTING SYSTEM

The type Z lifting system has a simple lifting piston system and is designed for the toughest jobs. The breakout force of 108 kN combines with a Bucket angle that is well maintained throughout the range of movement. The bucket angles are optimised in the travelling position and at ground level. The load isolation system (LIS option) is fitted as option. It increases operator comfort and improves output.

Lifting cylinders (2)
Bore x stroke : 120 mm x 798 mm
Bucket cylinders (1)
Bore x stroke : 140 mm x 495 mm

AXLES

The front and rear drive axles are fully suspended and have planetary reduction gears and wet disc brakes. A traction power is 8.4 tonnes.

Limited slip differential (front and rear)
30%
Oscillation angle
+/- 10°
Brakes
Dual multi-disc circuit. The braking system is activated by a pump and accumulator circuits. The parking brake consists of a disc mounted on the front axle applied by a spring and released hydraulically.

HYDRAULIC SYSTEM

The hydraulic system consists of gear type pump with steel case. The hydraulic control valve has a third port for powering an auxiliary hydraulic function.

Main pumps
Gear
Maximum flow
96 ℓ/min (25.3 gal/min)
Operating pressure
235 bars
Pilot system
Automatic functions for positioning the bucket for digging as well as for stopping the boom at the desired height position are standard. A simple levelling function is also standard.
Filters
In the oil return to the tank, the glass fibre filter has a filtering capability of 10 micron.
Loading cycle
Lifting speed(loaded) 6.2 seconds Dumping speed(loaded) 1.1 seconds Lowering speed(empty) 3.6 seconds

CAB

The modular cab gives excellent visibility in all directions. The driving position provides an excellent view of the bucket, the tyres and the loading area. The ventilation is optimum. The air conditioning and heating are controlled by pushbuttons with an air recirculation function. A double cab air filter is installed in the cab and a slight overpressure effectively protects the operator in dusty and polluted environments. The cab is mounted on viscous suspension mounts for maximum comfort. The cab is spacious and has generous amounts of storage. All information necessary for operating the machine is displayed in front of the operator. The control functions are centralised on a console on the right. Seat and arm rests are adjustable according to the operator. The same applies for the steering column.

Number of doors
1
Emergency exits
2
Standards
ROPS ISO 3471 and FOPS: ISO 3449
Guaranteed external noise level (2000/14/EC)
105 dB(A)
Sound level in cab. (ISO 6396)
76 dB(A)

STEERING SYSTEM

The steering system is hydraulic load sensitive type.

Steering angle
40°
Oil flow
96 ℓ /min
Operating pressure
200 bars
Steering cylinders (2)
Bore x stroke: 70 mm x 370 mm Emergency steering system with hydraulic pump driven by electric motor. (Optional)

MAINTENANCE

Maintenance is easy due to excellent access. The transmission is electronically controlled. An error coding system allows easy diagnosis of the systems and proper intervention.

Fuel tank - 223 ℓ
Cooling system - 40 ℓ
Engine oil - 21 ℓ
Front axle - 23 ℓ
Rear axle - 23 ℓ
Gearbox and converter - 30 ℓ
Hydraulic system - 174 ℓ

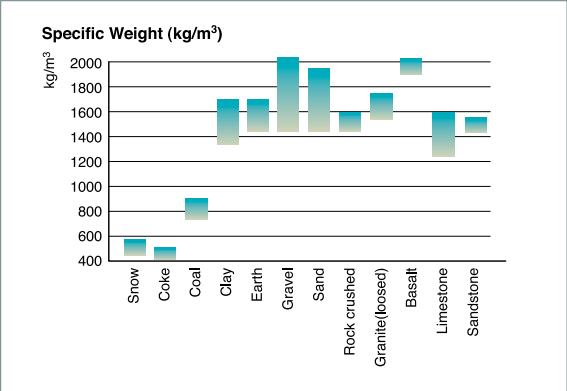
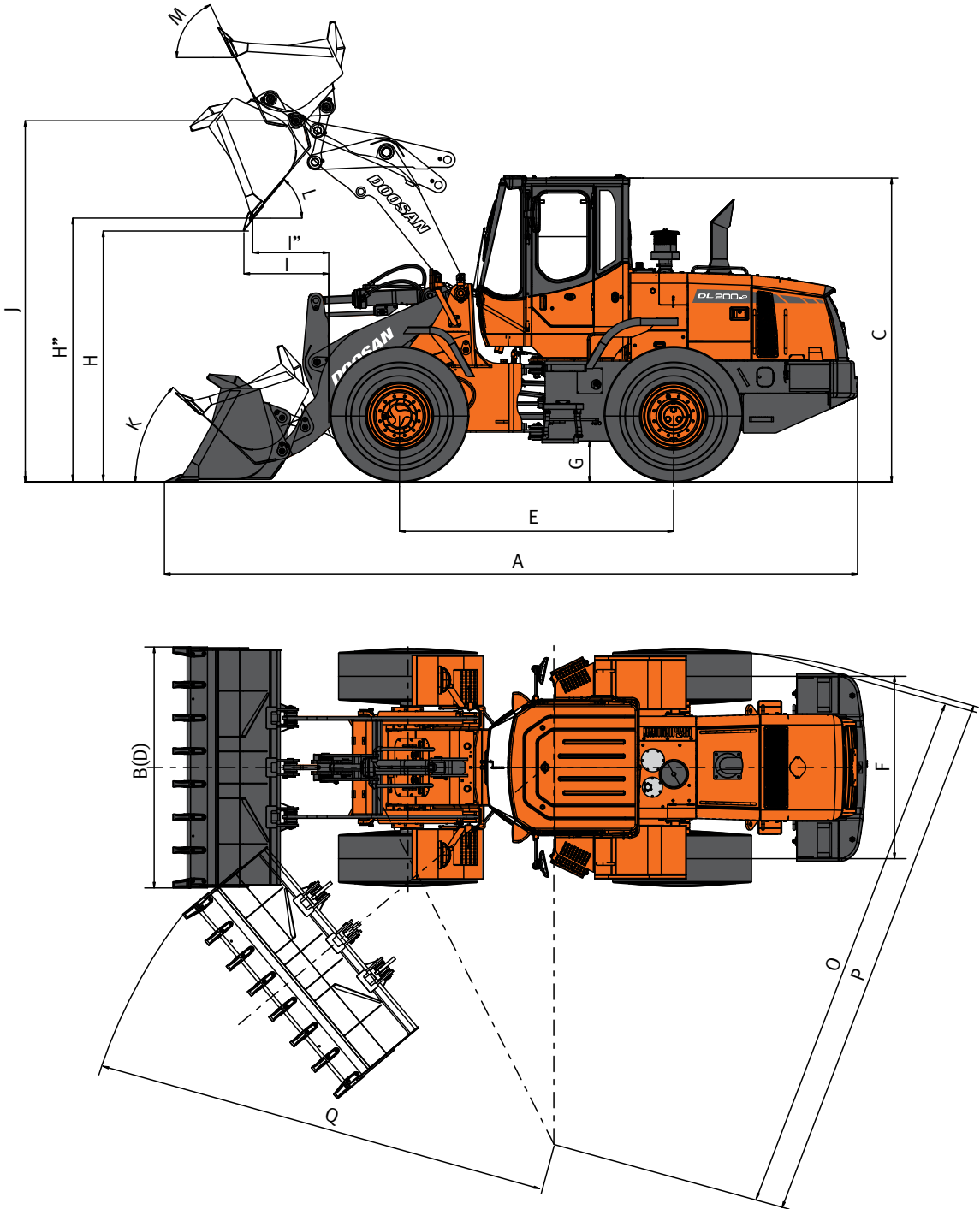
OPERATIONAL DATA

Loader type			GENERAL PURPOSE					
Bucket mount			PIN ON	PIN ON	PIN ON	PIN ON	PIN ON	PIN ON
Configuration	Code	Unit	Teeth (std.)	BOC	Teeth (opt.)	Teeth (std.)	BOC	Teeth (opt.)
Capacity heaped ISO/SAE	-	m³	1.9	2.0	2.0	1.9	2.0	2.0
Bucket width	B	mm	2,550	2,550	2,550	2,550	2,550	2,550
Breakout force	-	kN	108	102	102	108	102	102
Static tipping load (straight)	-	kg	8,300			8,630		
Static tipping load (at full turn)	-	kg	7,200			7,500		
Dump height (at 45°) (at fully raised) ¹⁾	H	mm	2,640	2,710	2,600	2,705	2,775	2,665
Dump reach (at 45°) (at fully raised) ¹⁾	I	mm	1,070	1,000	1,110	1,005	935	1,045
Dump height (at max. dump) (at max. reach) ¹⁾	-	mm	710	795	660	780	865	730
Dump reach (at max. dump) (at max. reach) ¹⁾	-	mm	1,640	1,585	1,670	1,575	1,520	1,605
Digging depth	-	mm	140			70		
Height at bucket Hinge point	J	mm	3,750			3,820		
Max. tilt angle at carry position	K	degree	47			47		
Max. tilt angle at fully raised	M	degree	63			63		
Max. tilt angle on ground	-	degree	42			42		
Max. tilt angle at max. reach	-	degree	62			62		
Max. dump angle at max. reach	L	degree	55			55		
Max. dump angle on ground	-	degree	56			56		
Max. dump angle at fully raised	-	degree	45			45		
External radius at tire side	O	mm	5,170			5,300		
External radius at bucket edge	Q	mm	5,810	5,785	5,850	5,810	5,785	5,850
Wheel base	E	mm	2,900					
Width at tyres	-	mm	2,290			2,460		
Tread	F	mm	1,845			1,930		
Ground clearance	G	mm	365			435		
Overall length	A	mm	7,320	7,230	7,380	7,260	7,170	7,320
Overall height	C	mm	3,170			3,240		
Tyre size	-	-	17.5-25-12PR TRI(L3)			20.5R25 TRI(L3)		
Operating weight	-	kg	11,400	11,460	11,430	11,880	11,940	11,910

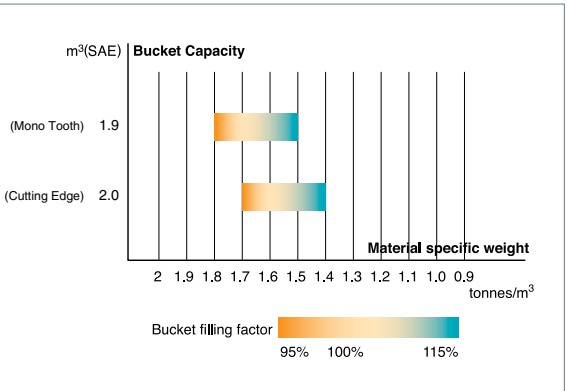
Loader type			HIGH LIFT					
Bucket mount			PIN ON	PIN ON	PIN ON	PIN ON	PIN ON	PIN ON
Configuration	Code	Unit	Teeth (std.)	BOC	Teeth (opt.)	Teeth (std.)	BOC	Teeth (opt.)
Capacity heaped ISO/SAE	-	m³	1.9	2.0	2.0	1.9	2.0	2.0
Bucket width	B	mm	2,550	2,550	2,550	2,550	2,550	2,550
Breakout force	-	kN	96	91	91	96	91	91
Static tipping load (straight)	-	kg	7,100			7,380		
Static tipping load (at full turn)	-	kg	6,100			6,350		
Dump height (at 45°) (at fully raised) ¹⁾	H	mm	3,000	3,070	2,960	3,070	3,140	3,030
Dump reach (at 45°) (at fully raised) ¹⁾	I	mm	1,125	1,055	1,165	1,075	1,005	1,115
Dump height (at max. dump) (at max. reach) ¹⁾	-	mm	700	780	650	770	850	720
Dump reach (at max. dump) (at max. reach) ¹⁾	-	mm	1,915	1,865	1,945	1,850	1,800	1,880
Digging depth	-	mm	305			235		
Height at bucket Hinge point	J	mm	4,113			4,183		
Max. tilt angle at carry position	K	degree	51			51		
Max. tilt angle at fully raised	M	degree	55			55		
Max. tilt angle on ground	-	degree	44			44		
Max. tilt angle at max. reach	-	degree	54			54		
Max. dump angle at max. reach	L	degree	57			57		
Max. dump angle on ground	-	degree	61			61		
Max. dump angle at fully raised	-	degree	46			46		
External radius at tire side	O	mm	5,170			5,300		
External radius at bucket edge	Q	mm	5,950	5,925	5,990	5,950	5,925	5,990
Wheel base	E	mm	2,900					
Width at tyres	-	mm	2,290			2,460		
Tread	F	mm	1,930			1,845		
Ground clearance	G	mm	365			435		
Overall length	A	mm	7,720	7,630	7,780	7,660	7,570	7,720
Overall height	C	mm	3,170			3,240		
Tyre size	-	-	17.5-25-12PR TRI(L3)			20.5R25 TRI(L3)		
Operating weight	-	kg	11,500	11,560	11,530	11,980	12,040	12,010

1) Measured to the tip of the bucket teeth or cutting edge.

DIMENSIONS



The specific weight of material largely depends on moisture rate, compacting value, percentage of various components etc... This chart is given only for information.



The Bucket filling factor depends also of the nature of material, the working conditions and the operator ability.

STANDARD AND OPTIONAL EQUIPMENT

STANDARD EQUIPMENT

Engine
<ul style="list-style-type: none">• DOOSAN DL06 Diesel engine• Air cleaner - Double element cartridge + Cyclone filtration in prior stage• Fuel filter - Main fuel filter and fuel pre-filter with water separator• External drains for engine oil and coolant changes• Hydraulic radiator fan - Reversible fan
Hydraulic System
<ul style="list-style-type: none">• Hydraulic control valve - 2 spool• Hydraulic main pump - Gear• Hydraulic control levers• Boom kick out - Automatic• Bucket return to dig - Automatic
Cabin and Interior
<ul style="list-style-type: none">• 12V power socket• Double Filtered air cab• Air conditioner and heater with recirculation function• Cup holder• Tinted glasses• Floor mat• AM/FM Radio + MP3(USB)• Windshield washer front and rear• Windshield wipers front and rear• Cigarette lighter• Multiple storage compartments• Glass antenna• Seat - Mechanical suspension• ROPS cabin - ISO 3471• FOPS cabin - ISO 3449• Adjustable steering column• Rear view mirrors - Interior 1• Rear view mirrors - Exterior 2



Eletrical and lighting
<ul style="list-style-type: none">• Battery cut-off switch• Working light - Front 2 + Rear 2• Driving light - Low and high beams• Tail indicators - Stop, reversing lights• Reversing alarm• Electric horn• Alternator - 24V, 60A• Self-diagnostic system
Linkage
<ul style="list-style-type: none">• Z-bar loader linkage
Drivetrain and Brake system
<ul style="list-style-type: none">• Gear shift switch - Manual, Auto 1 ↔ 4, Auto 2 ↔ 4• Kickdown and travelling direction selection• Starting safety system• Dual brake circuits with accumulator• Parking brake - Electrical, hydraulic• Differential - Limited slip
Steering system
<ul style="list-style-type: none">• Open center steering system
External equipment
<ul style="list-style-type: none">• Fender

OPTIONAL EQUIPMENT

Some of these optional equipments may be standard in some markets. Some of these optional equipments cannot be available on some markets. You must check with the local DOOSAN dealer to know about the availability or to release the adaptation following the needs of the application.


Hydraulic System	Linkage
<ul style="list-style-type: none">• Hydraulic control valve - 3 spool• Load isolation system (LIS)• Hydraulic control levers - Mono• Hydraulic control levers - FNR• Hydraulic control levers - Finger tip	<ul style="list-style-type: none">• Z-bar high lift loader linkage
Cabin and Interior	Steering system
<ul style="list-style-type: none">• Seat - Air suspension	<ul style="list-style-type: none">• Emergency steering pump
Eletrical and lighting	External equipment
<ul style="list-style-type: none">• License lamp• Beacon - Rotating• Alternator - 24V, 80A	<ul style="list-style-type: none">• Fender - Full fender + rubber protector• Anti-noise Kit• Counterweight - 0.2t• Tool Kit• Mud guard

ATTACHMENTS


BUCKETS

	General Purpose	Light Material	
	Mounting type	Capacity	Width
GENERAL PURPOSE	Direct mount	1.9 / 2.0 m³	2,550 mm
	Quick coupling	2.0 m³	2,475 mm
LIGHT MATERIAL	Direct mount	4.0 m³	2,740 mm
	Quick coupling	4.0 m³	2,740 mm




CONNECTING


	Quick Coupler		
	Mounting type	Model	Weight
QUICK COUPLER	Quick coupling	DLQC20	340 kg




Pallet Fork



General purpose



Tropical type



Sorting type

MATERIAL HANDLING

Model

Length

PALLET FORK

DLPF20

48" / 60"

Model

Type

LOG GRAPPLE

DLLG20

General purpose

Tropical type

Sorting type

* Standard specification and options may vary by country.
** Specification is subject to change without prior notice for quality enhancement.

Doosan is

Since 1896, Doosan, the oldest company in Korea, has evolved with its people. The company grew up rapidly for last 10 years with reputation. For human-oriented vision, Doosan has been building constructions, energy, machines, infra structures globally. As a global leader of infra structure, Doosan continues its vision to make human-oriented future.

First in Korea, Doosan self-developed excavators in 1985 and continued building versatile construction machines including excavators, wheel loaders, articulated dump trucks to execute its human-oriented philosophy. Doosan became a global leader of heavy construction machine industry by achieving global sales line, producing line, and distribution line. Along with large production bases in Korea, China, USA, Belgium, Czech, Brazil, Doosan has 1400 dealer networks and Doosan is providing reliable products and trusted solutions for your stable business at no risk.



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