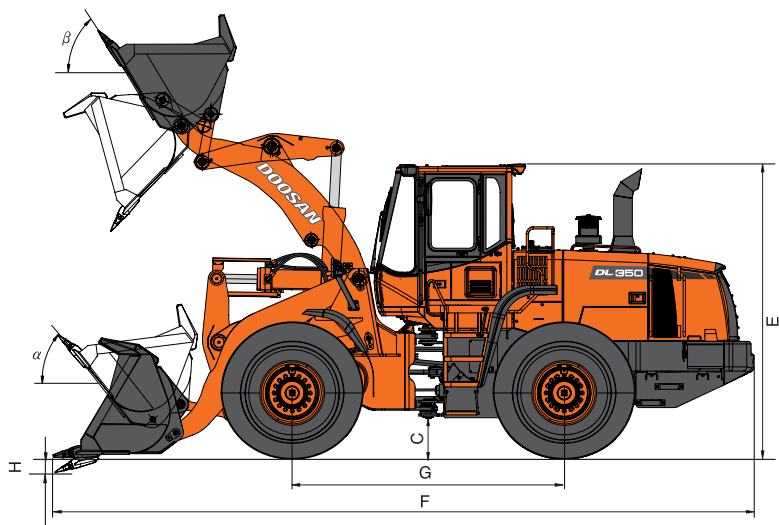
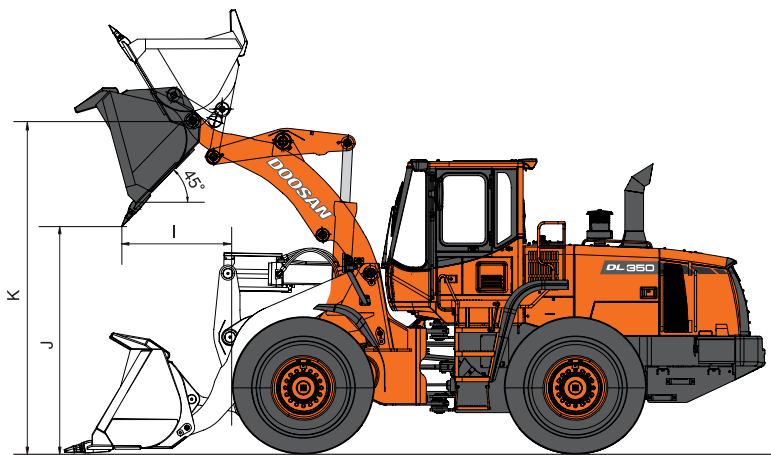
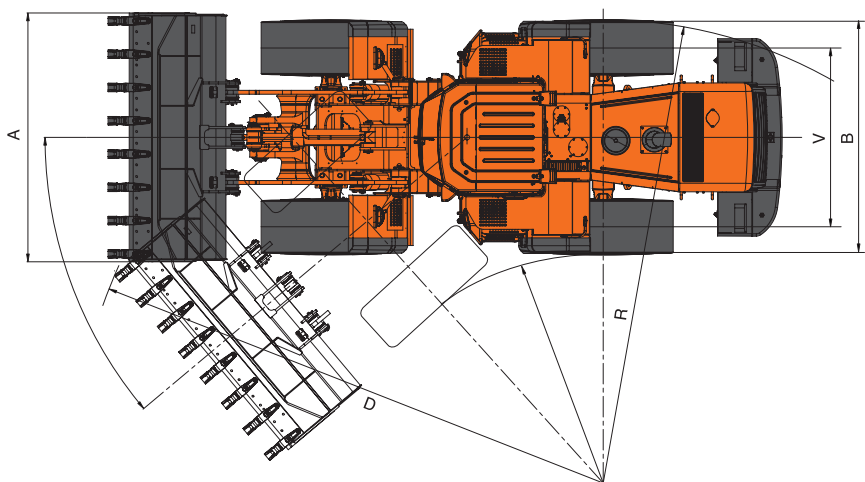


DL350

Dimensions



Measured to the tip of the bucket teeth or bolt on edge with tires 23.5R25(L3).



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PBP D350W000 0904

The illustrations do not necessary show the product in standard version.  
All products and equipment are not available in all markets.  
Materials and specifications are subject to change without prior notice.



Doosan Infracore  
Construction Equipment

# DL350

Engine Power : SAE J1995, gross 172 kW(235 PS)@ 2,000 rpm

Operational Weight : 19,000kg ( 41,887 lb) - STD.

Bucket capacity(SAE 2:1 Heaped) : 3.3 ~ 3.9m<sup>3</sup>( 4.29~5.07 cu.yd)



Photo may include optional equipment



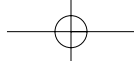


# DL350

The new DL350 wheel loader has all the advantages of the previous model, and now offers additional added value to the operator.



The new DL350 was developed with the concept of “providing optimum value to the end user.” In concrete terms, this translates, into :





Wheel loader : DOOSAN DL350

# A Powerful Wheel loader with Novel Features



**Increased production** due to the use of a new generation "Common Rail" 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.

**Reduced maintenance** increases the availability of the loader and reduces operating costs.

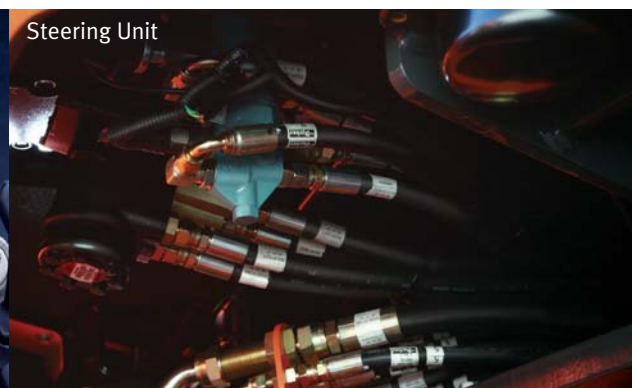


# Performance

DL350

Perfect integrations of power and intelligence. When exceptional power is combined with the very best workmanship, this wheel loader reaches the peak of its performance.

The DL350 loader gives you outstanding productivity, the impressive digging power allows the hardest materials to be tackled, high tractive power enable easy penetration.



## Hydraulic Power Steering

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





**DOOSAN “DLo8” Engine**

The DLo8 low emission engine combines Common-Rail fuel injection system with full authority electronics for superior low-end performance with a strong torque rise.

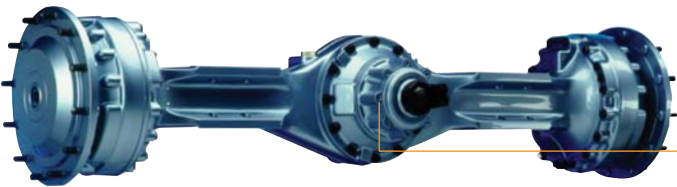


**Full Auto Transmission**

The electronic powershift transmission is particularly smooth and gear ratios perfectly spaced to give optimal speed. That gives comfort at the same time that it delivers excellent traction in every working conditions. Built-in electronic controls enhance productivity and durability.

**DOOSAN Infracore is aware of the importance of protecting the environment.**

Ecology was uppermost in the minds of the research workers right from the start of the design of the new machines. The new challenge for the engineers is to combine the protection of nature with equipment performance. DOOSAN has been investing heavily to this end. The new Doosan DLo8 engine respects and protects the environment, limiting all types of toxic emissions.

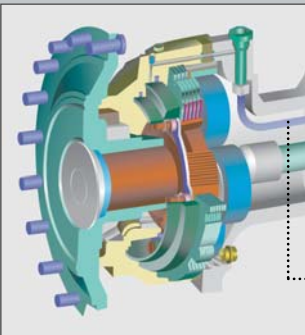


**Axle**

Improved internal oil flow greatly reduced the temperature difference between the hub and the differential, as well as prevents premature disc wear due to overheating of the internal hub components.

**LSD (Limited Slip Differential)**

The standard equipment LSD allows easy driving through soft and swampy grounds.



**Increased Axle durability**

The brake discs have been repositioned to the rear part of the reduction gear where the rotation speed is lower. As a result, the discs are exposed to lower rpm's and heat generation is reduced and the life span of the discs is greatly extended. Automatic disc clearance regulator has been intergrated into the design and the disc clearance is maintained at the optimum level at all times as the discs wear out. This prevents any lag in brake response. Another convenient feature is that brake disc wear can easily be measured without disassembling the hub.

The brake piping has been redesigned into the axle housing and is protected from damage from external shock as the machine drives over rough terrain.



**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.

# Comfort

## DL350

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 DL350 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.

### Noise Level

- LwA Surface Sound Power Level : 103dB(A), (LwAg dB(A)) (ISO 6395-2000/14/EC)
- LpA Operator's Cabin noise level : 69.2 dB(A) (ISO 6396)



### Central Monitor Panel

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



### Sunvisor & Room mirror(Std.)





**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.



**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.



**Control levers**

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.



3" Safety belt  
- Retractable seat belt

**Air-Suspension Seat**

Now available Air-suspension seats provide more comfort and support for the operator.(Opt.)



**Steering column**

The steering column features both tilting and telescopic functions.



**Arm rest**

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



**Outside mirrors with built-in hot wires**

The hot wires built in the outside mirrors get rid of moisture and frost caused by rain or snow to secure rear fields of vision even in bad weather.



# Maintenance

## DL350

Short, simple maintenance operations at long intervals increase the availability of the equipment on site. DOOSAN has developed the DL350 with a view to high profitability for its user. Each design of part guarantees optimum reliability and reduced maintenance costs.



### Central joints

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



### Reinforced Bucket

The lower and side panels of the bucket have been reinforced with additional plates (Std).

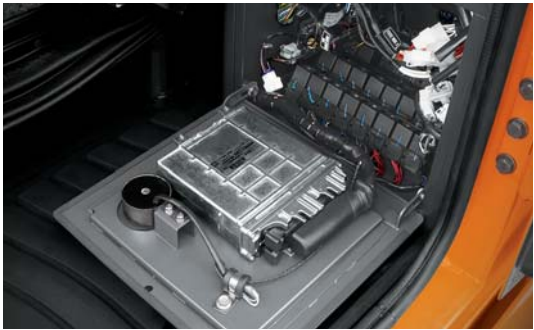
- Reinforcement : At both sides - 1 point each
- At lower panel - 3 point





**Easy maintenance**

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



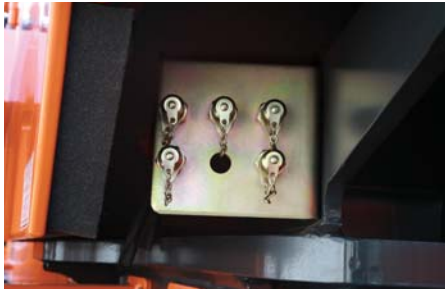
**Transmission diagnostics**

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



**Engine oil and coolant drains**

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



**Hydraulic pressure check points**

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



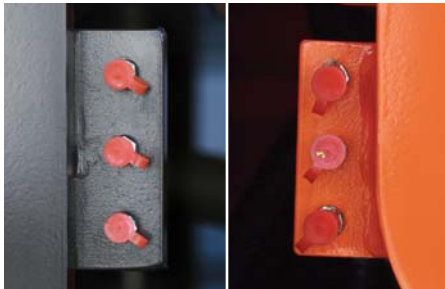
**Air cleaner**

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.



**Convenient Transmission Oil Filling**

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



**Greasing Lubrication Ports**

The front pins and steering cylinders and rear support assembly can be lubricated from the outside of the machine without crawling under the machine or in awkward positions through the lubrication ports.



**Propeller Shaft**

A protective cover has been installed to protect the oil seal from dust, foreign objects and premature wear.



**Transmission filter**

The transmission filter is easy to reach and can, like all other maintenance components, be checked from ground level.

**Brake & Pilot Filter**

The Pilot filter is easy to replace and a clogged filter warning system has been added for extra protection.

**Sight Gauges**

Well-located, yet easily visible sight gauges for the hydraulic oil and radiator coolant allow easy daily checks while reducing the risk of contaminants entering the systems.



# Reliability

DL350

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.



## Radiator grill

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



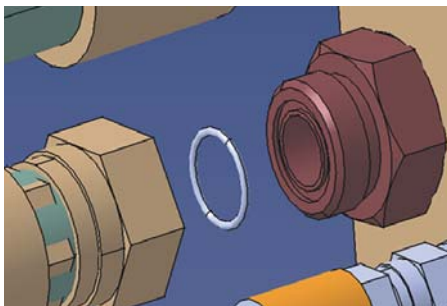
## Rear combination lamp

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



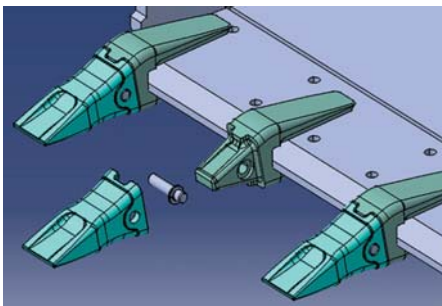
## Fender-Edge

Because of safety, rubber is attached at the edge of fender.



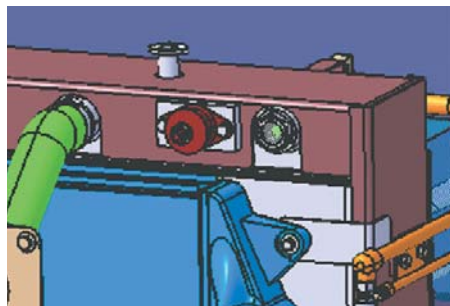
## ORFS-All Ports

(Even in Pilot line and Low pressure line)



## 2-piece type tooth

(Pin-on-tooth+Bolt-on adapter)



## Rubber-mounting

(for Radiator: Lateral 2EA / Vertical 2EA)



DL350

General Specification

| Items  |                                | Unit   | standard             | Option      |
|--|--------------------------------|--|----------------------|-------------|
| Operating Weight                                     |                                | ton  | 19.0                 | 19.5        |
|  |                                | lb   | 41,887               | 42,989      |
| Bucket Capacity (BOT/BOC SAE Heaped)                 |                                | m³   | 3.5/3.7              |             |
|  |                                | yd³  | 4.6/4.8              |             |
| Engine (SAE J1995 Gross)                             | Rated Power (Gross)            | PS/rpm   | 235/2,000            |             |
|  | Max. Power (Gross)             | PS/rpm   | 250/1,700            |             |
|  | Max. Torque (Gross)            | kg.m/rpm   | 112/1200             |             |
| System Pressure (Work/Steer)                         |                                | kg/cm²   | 200/220+5            |             |
| Travel Speed   | Forward (1/2/3/4)              | km/h   | 6.2/11.7/22.2/34.5   |             |
|  |                                | mph  | 3.9/7.3/13.8/21.4    |             |
|  | Reverse (1/2/3)                | km/h   | 6.2/11.5/21.4        |             |
|  |                                | mph  | 3.9/7.1/13.3         |             |
| Boom Up Speed  |                                | sec  | 6.1                  |             |
| Gradeability   |                                | %( ° )   | 51 (27)              |             |
| Tire Size  |                                |  | 23.5-25-16PR(L3)     | 23.5R25(L3) |
| Breakout Force                                       |                                | ton  | 17.1                 |             |
|  |                                | lb   | 37,698               |             |
| Working Range  | Dump Height at 45°(W/BOT)      | mm   | 2,915                | 2,910       |
|  |                                | ft in  | 9'7 "                | 9'7 "       |
|  | Dump Reach at 45°(W/BOT)       | mm   | 1,330                | 1,325       |
|  |                                | ft in  | 4'4 "                | 4'4 "       |
|  | Max. Dump Angle (fully raised) | °  | 48                   |             |
|  | Max. Tilt Angle (on ground)    | °  | 43                   |             |
|  | Max. Tilt Angle (fully raised) | °  | 60                   |             |
|  | Max. Tilt Angle (at carry)     | °  | 48                   |             |
|  | Bucket Hinge Height            | mm   | 4,165                | 4,160       |
|  |                                | ft in  | 13'8 "               | 13'8 "      |
|  | Digging Depth (0° level)       | mm   | 100                  | 105         |
|  |                                | ft in  | 4 "                  | 4 "         |
| Travel Dimension                                     | Overall Length                 | mm   | 8,467                |             |
|  |                                | ft in  | 27'3 "               |             |
|  | Overall Width (W/BOT)          | mm   | 3,000                |             |
|  |                                | ft in  | 9'10 "               |             |
|  | Overall Height                 | mm   | 3,431                | 3,426       |
|  |                                | ft in  | 11'3 "               | 11'3 "      |
|  | Ground Crearance               | mm   | 428                  | 423         |
|  |                                | ft in  | 1'5 "                | 1'5 "       |
|  | Wheel Base                     | mm   | 3,300                |             |
|  |                                | ft in  | 10'10 "              |             |
| Tread  | mm                             | 2,150  |                      |             |
|  | ft in                          | 7'1 "  |                      |             |
| Max. Steering Angle                                  |                                | °  | 40                   |             |
| Turning Radius (Tire Center/ Tire edge/ Bucket edge) |                                | mm   | 5,608/5,906/6,600    |             |
|  |                                | ft in  | 18'5 "/19'5 "/21'8 " |             |
| Sound Level in cab (ISO 6396)                        |                                | dB(A)  | 69.2                 |             |
| External Sound Power Level (ISO 6395, 2000/14/EC)    |                                | dB(A)  | 103.3                |             |
| Fuel Tank Capacity                                   |                                | Liter  | 326                  |             |
|  |                                | gal  | 71.7                 |             |
| Option Attachments                                   |                                | <ul style="list-style-type: none"><li>• Bolt on cutting edge bucket (3.5, 3.7, 3.9 m³/ 4.6, 4.8, 5.1 yd³ )</li><li>• Bolt on teeth bucket (3.3, 3.5, 3.7 m³/ 4.3, 4.6, 4.8 yd³ )</li><li>• LIS Boom suspension</li><li>• Emergency steering</li><li>• Rear full fender</li><li>• 2nd/3rd spool control v/v</li></ul> |                      |             |

- Standard is with ROPS/FOPS structure, standard bucket and 23.5-25-16PR (L3) TIRE.
- Option is with ROPS/FOPS structure, standard bucket and 23.5R25(L3) TIRE.

DL350

Operational Data

| Bucket type   |   |       | General purpose |               |               |              |              |              |
|---|---|-------|-----------------|---------------|---------------|--------------|--------------|--------------|
| Configuration   |   | Unit  | Teeth           | Teeth (std.)  | Teeth         | Bolt-on edge | Bolt-on edge | Bolt-on edge |
| Capacity heaped ISO/SAE                                 |   | m³    | 3.3             | 3.5           | 3.7           | 3.5          | 3.7          | 3.9          |
|   |   | yd³   | 4.29            | 4.55          | 4.81          | 4.55         | 4.81         | 5.07         |
| Tooth type  |   |       | Adapter tooth   | Adapter tooth | Adapter tooth | -            | -            | -            |
| Bucket width  | A | mm    | 3,000           | 3,000         | 3,110         | 3,000        | 3,000        | 3,110        |
|   |   | ft in | 9'10"           | 9'10"         | 10'2"         | 9'10"        | 9'10"        | 10'2"        |
| Breakout force  |   | kN    | 17.1            | 17.1          | 17.1          | 17.1         | 17.1         | 17.1         |
|   |   | lbf   | 37.7            | 37.7          | 37.7          | 37.7         | 37.7         | 37.7         |
| Static tipping load (straight)                          |   | kg    | 15,480          | 15,503        | 15,473        | 15,317       | 15,336       | 15,293       |
|   |   | lb    | 34,128          | 34,178        | 34,112        | 33,768       | 33,810       | 33,715       |
| Static tipping load (At full turn)                      |   | kg    | 13,669          | 13,689        | 13,663        | 13,525       | 13,542       | 13,504       |
|   |   | lb    | 30,135          | 30,179        | 30,122        | 29,818       | 29,855       | 29,771       |
| Dump height (at 45°) <sup>1)</sup><br>(at fully raised) | J | mm    | 2,910           | 2,910         | 2,910         | 3,041        | 3,041        | 3,041        |
|   |   | ft in | 9'7"            | 9'7"          | 9'7"          | 9'11"        | 9'11"        | 9'11"        |
| Dump reach (at 45°) <sup>1)</sup><br>(at fully raised)  | I | mm    | 1,325           | 1,325         | 1,325         | 1,189        | 1,189        | 1,189        |
|   |   | ft in | 4'4"            | 4'4"          | 4'4"          | 3'11"        | 3'11"        | 3'11"        |
| Digging depth   | H | mm    | 105             | 105           | 105           | 105          | 105          | 105          |
|   |   | ft in | 4"              | 4"            | 4"            | 4"           | 4"           | 4"           |
| Height at bucket pivot point                            | K | mm    | 4,160           | 4,160         | 4,160         | 4,160        | 4,160        | 4,160        |
|   |   | ft in | 13'8"           | 13'8"         | 13'8"         | 13'8"        | 13'8"        | 13'8"        |
| Max. tilt angle at carry position                       | α | °     | 48              | 48            | 48            | 48           | 48           | 48           |
| Max. tilt angle at fully raised                         | β | °     | 60              | 60            | 60            | 60           | 60           | 60           |
| Max. tilt angle at ground                               |   | °     | 43              | 43            | 43            | 43           | 43           | 43           |
| External radius at tire sidea                           | R | mm    | 5,906           | 5,906         | 5,906         | 5,906        | 5,906        | 5,906        |
|   |   | ft in | 19'5"           | 19'5"         | 19'5"         | 19'5"        | 19'5"        | 19'5"        |
| External radius at bucket edge                          | D | mm    | 6,600           | 6,600         | 6,655         | 6,518        | 6,518        | 6,617        |
|   |   | ft in | 21'8"           | 21'8"         | 21'10"        | 21'5"        | 21'5"        | 21'9"        |
| Wheel base  | G | mm    | 3,300           | 3,300         | 3,300         | 3,300        | 3,300        | 3,300        |
|   |   | ft in | 10'10"          | 10'10"        | 10'10"        | 10'10"       | 10'10"       | 10'10"       |
| Width at tyres  | B | mm    | 2,750           | 2,750         | 2,750         | 2,750        | 2,750        | 2,750        |
|   |   | ft in | 9'0"            | 9'0"          | 9'0"          | 9'0"         | 9'0"         | 9'0"         |
| Tread   | V | mm    | 2,150           | 2,150         | 2,150         | 2,150        | 2,150        | 2,150        |
|   |   | ft in | 7'0"            | 7'0"          | 7'1"          | 7'1"         | 7'1"         | 7'1"         |
| Ground clearance  | C | mm    | 423             | 423           | 423           | 423          | 423          | 423          |
|   |   | ft in | 1'5"            | 1'5"          | 1'5"          | 1'5"         | 1'5"         | 1'5"         |
| Overall length  | F | mm    | 8,467           | 8,467         | 8,452         | 8,275        | 8,275        | 8,275        |
|   |   | ft in | 27'9"           | 27'9"         | 27'9"         | 27'2"        | 27'2"        | 27'2"        |
| Overall height  | E | mm    | 3,426           | 3,426         | 3,426         | 3,426        | 3,426        | 3,426        |
|   |   | ft in | 11'3"           | 11'3"         | 11'3"         | 11'3"        | 11'3"        | 11'3"        |
| Operating weight  |   | kg    | 19,023          | 19,000        | 19,030        | 19,186       | 19,167       | 19,210       |
|   |   | lb    | 41,938          | 41,887        | 41,953        | 42,297       | 42,255       | 42,350       |

1) Measured to the tip of the bucket teeth or bolt-on edge.

2) All measurements with tyres 23.5R25(L3).