

# DL 500

Operating Weight:

30.700 kg

Bucket capacity (SAE):

4,8~5,2 m<sup>3</sup>

Engine Power:

250 kW / 340 PS Rated Net @ 1900 rpm



**DOOSAN DAEWOO**

# TECHNICAL FEATURE

## Q ENGINE

### • Cummins QSM 11

Common rail, electronic regulation, Turbo diesel, air to air intercooler.  
2 working modes ( std, economy).

### • Displacement / N° cylinders

10,8 l / 6 cyl

### • Bore / stroke

125 mm / 147 mm

### • Cooling

Sucker fan driven by hydraulic motor.  
Reversible fan.

### • Air cleaner

3 stages: Turboll precleaner-main and safety elements.

### • Batteries

2 x 12V

### • Batteries capacity

150 AH

### • Starter motor

7,5 kW

## Q TRANSMISSION

### • ZF 4 WG 310

Countershaft, 3 working modes:  
Autom, semi autom, manual.

### • Torque converter

Free wheel stator.

### • Torque multiplication

2,51 / 1

### • Speeds (Forward)

6,2 - 11,5 - 18 - 35 km/h

### • Speeds (Rearward)

6,2 - 11,5 - 24,4 km/h

## Q AXLES

### • ZF

Both and rear fully floating axles with limited slip differentials.

### • Rear axles oscillation

15°

## Q BRAKES

Dual Braking system actuated by pump and accumulators.

### • Type

Wet multiple discs

### • Parking brake

Dry disc

## Q HYDRAULIC SYSTEM

Load sensing with variable axial piston pump.  
Closed center control valve with 2 spools.

### • Max flow delivery

232 l/min

### • Max working pressure

250 bars

### • Hydraulic cycle

Lift 6 s

Lower 4,3 s

Dump 1,8 s

### • 2 Lifting cylinders: bore x stroke

190 mm x 899 mm

### • 1 Bucket cylinders: bore x stroke

230 mm x 575 mm

### • Load isolation system (LIS)

## Q STEERING

Load sensing. Amplification stage & priority valve.

### • Pump

Variable axial piston pump.

### • Max flow

232 l/min

### • Priority flow

200 l/min

### • Max working pressure

185 bars

### • Cylinders (borex stroke)

110 mm x 465 mm

### • Emergency steering circuit with hydraulic pump

## Q CAB

Integrated ROPS & FOPS cab.

## Q CAPACITIES

Engine oil: 34 l

Transmission oil: 54 l

Hydraulic oil: 236 l

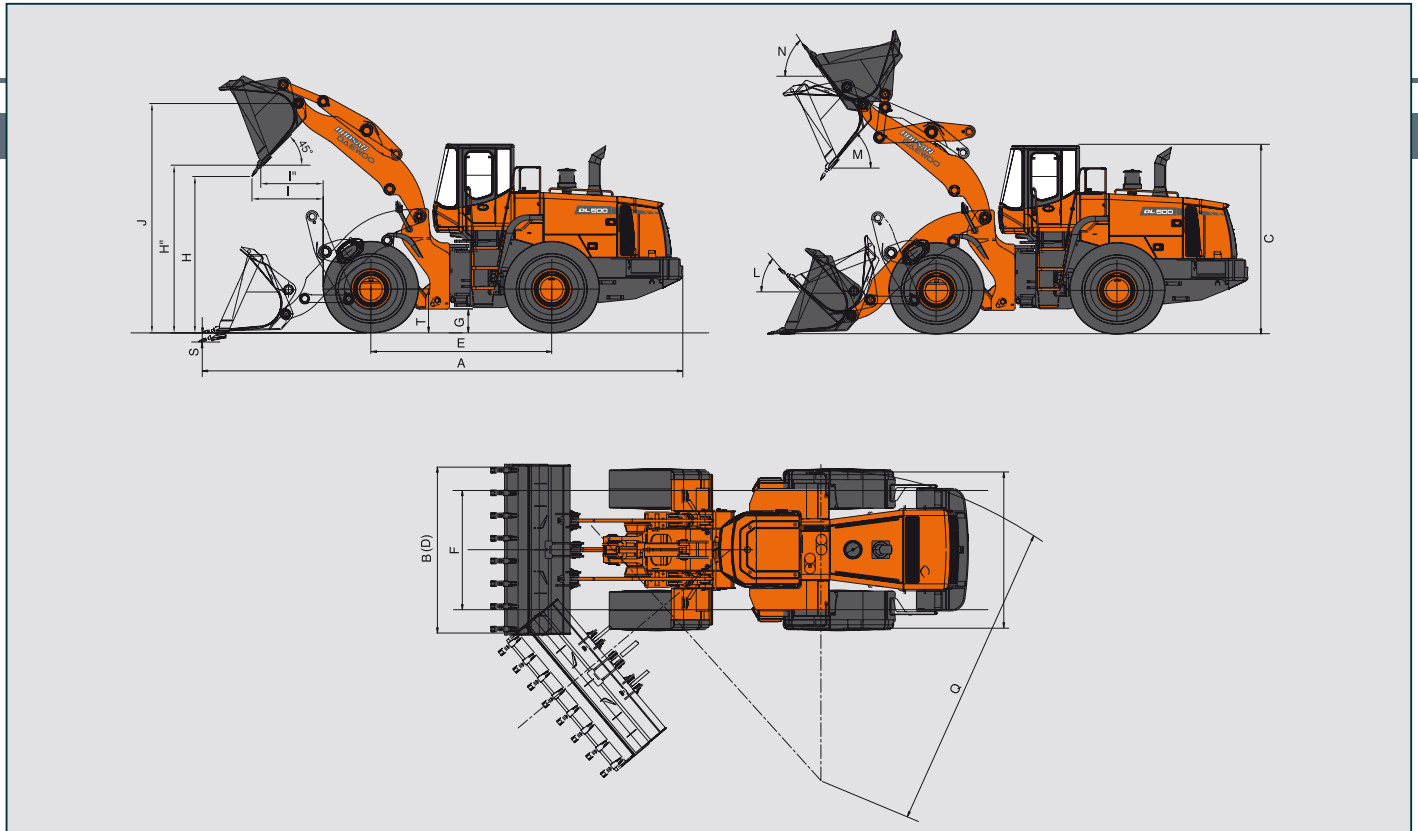
Axle front oil: 50 l

Axle rear oil: 50 l

Coolant: 60 l

Fuel tank: 476 l

# DIMENSIONS



<b>Operating weight</b>			Ton	30,7
Bucket capacity	(Bolted teeth)		m <sup>3</sup> (Sae heaped)	4,8
Bucket capacity	(Bolted cutting edge)		m <sup>3</sup> (Sae heaped)	5,2
<b>Engine</b>		Rated Power	PS/hp/kW @ rpm	340 / 335 / 250 @ 1900
(SAE J 1995 gross)		Max Power	PS/hp/kW @ rpm	360 / 355 / 265 @ 1600
Max Torque			kg.m / N.m @ rpm	171 / 1677 @ 1400
<b>Mobility</b>				
Travel speed			km/h	35
Gradeability			% / (°)	58 (30)
Traction force			Ton	26,4
Tire size			L4	29.5 - 25
<b>Balance and manoeuvrability</b>				
Static tipping load (straight)			kg	23.000
Static tipping load (fully articulated)			kg	20.000
Max articulation			°	40
Turning radius (bucket corner)			mm	7.370
Turning radius (tire side )	Q		mm	6.590
<b>Breakout force</b>			kg	27,3
<b>Dimensions</b>				
Dumping clearance (to bolted tooth)	H		mm	3.120
Dumping clearance (to bolted cutting edge)	H'		mm	3.270
Dumping reach (to bolted tooth)	I		mm	1.430
Dumping reach (to bolted cutting edge)	I'		mm	1.285
Digging depth	S		mm	95
Bucket pin height	J		mm	4.585
Wheel base	E		mm	3.600
Ground clearance	G		mm	510
Overall length	A		mm	9.525
Overall height	C		mm	3.820
Overall & bucket width	B		mm	3.400
<b>Bucket angles</b>				
Max dumping angle (fully raised)	M		°	48
Max tilt angle (ground)			°	44
Max tilt angle (at carry )	L		°	49
Max tilt angle (fully raised )	N		°	58
<b>Noise level</b>				
Noise level (operator cab: ISO 6396)			dB(a)	72
External sound power level: ISO 6395 & 2000/14/EC			dB(a)	108

# STANDARD & OPTIONAL EQUIPMENT

## Q STANDARD EQUIPMENT

### • Engine

- 3 stages air cleaning system with Turbo II
- Water separator for fuel filter
- Preheating of induction air
- 2 power modes
- Integrated diagnosis system
- Idle mode adjustment
- Fast idle mode at start
- External drains for engine oil & coolant

### • Drive train

- Transmission declutch
- Integrated transmission diagnosis system
- Integrated transmission self adjusting system
- Limited slip differential on both axles

### • Lifting and hydraulic system

- Robust Z bar lifting system
- Load sensing, closed center control valve
- Mono lever hydraulic joystick with FNR
- Leveling function
- Automatic return to dig
- Automatic boom kick out
- Fast couplers for hydraulic check
- LIS (Load Isolation System)

### • Steering system

- Load sensing, amplification flow
- Emergency steering

### • Safety

- External heated rear mirrors
- Hydraulic locking system
- Neutral safety start

### • Lighting

- 2 front and rear working lights
- Complete road lighting (tail, stop, directional)

### • Cab

- Integrated Rops and Fops cab
- Integrated glass antenna
- Double filtered air cab
- Arm & wrist rest
- Steering column, adjustment tiltable type
- Fully adjustable air suspension seat with safety belt
- Heater, defroster and air conditioning
- Sliding door windows
- Storage location
- Hot/cold compartment for cans
- Cuo holder
- Sunvisor, inner rear mirror
- Windows washer & wipers (front and rear)
- Complete monitoring in front of operator
- Complete switches dashboard at the righth

### • External & protective equipment

- Front & Rear full fenders
- Pull hitch

### • Various

- Fuel feeding pump

## Q 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.

- Various type of buckets and front equipments
- Various type of tires specs & manufacturers
- Hydraulic valve with 3 spools
- Finger type (2 levers) joy stick
- Finger type (2 levers) with auxiliary lever
- Mono lever with auxiliary lever

- Small fenders
- Centralised greasing system
- Additional lighting
- Rotating beacon
- Radio / MP3 / CD player
- CCTV camera

**DOOSAN Infracore Europe S.A.**  
1<sup>^</sup>, rue Achille Degrâce  
7080 Frameries, Belgium  
Tel : +32-65-61 32 30 • Fax : +32-65-67 73 38

**DOOSAN Infracore France SA**  
1/3 rue Pavlov, Z.A. des Bruyères  
78190 Trappes, France  
Tel : +33-1-30 16 21 41 • Fax : +33-1-30 16 21 44

**DOOSAN Infracore U.K., Ltd.**  
Doosan House, Unit 6, 3 Heol-Y-Gamlas, Parc Nantgarw,  
Nantgarw, Cardiff CF15 7QU, U.K.  
Tel : +44-1443-84-2273 • Fax : +44-1443-84-1933

**DOOSAN Infracore Germany GmbH**  
Hans-Böckler-Str. 29  
D-40764, Langenfeld-Fuhrkamp, Germany  
Tel : +49-2173-8509-18 • Fax : +49-2173-8509-45

**Head Office**  
Doosan Tower 26<sup>TH</sup> FL. 18-12, Euljiro-6Ga,  
Jung-Gu, Seoul, Korea 100-730  
Tel : +82-2-3389-8114 • Fax : +82-2-3389-8117

[www.doosaninfracore.com](http://www.doosaninfracore.com)  
[www.doosaneurope.com](http://www.doosaneurope.com)

