

* | 250 kW (335 HP) at 2100 rpm

▲ | 22610 - 29800 kg

📦 | 4.80 m³



MEGA500V | Wheel Loader



Technical specifications

Engine

• Make and model

CUMMINS QSM11 diesel engine

• Type

4-Cycle, Turbo, CAC-cooled, ECU-controlled, Direct injection

• Net flywheel horse power (SAE J 1349)

250 kW (335 HP) at 2100 rpm

• Total displacement

10.82 l

• No. of cylinders

6

• Bore x stroke

125 x 147 mm

• Cooling

Sucker plastic fan driven by hydraulic fan motor

• Air cleaner

Dry type (double stage)

Electrical system

• Voltage

24 V

• Batteries, in series

Quantity:	2 x 12V
Capacity:	150 Ah
Type:	maintenance free

• Starter

24 V x 4.5 kW

• Alternator capacity

70 A

Torque converter

• Type

Single stage / single phase

• Torque stall ratio

2.987

Transmission

Safety device prevents engine starting while in neutral gear.

• Type

Fully automatic power-shift countershaft design with four forward and three reverse speeds

• Control

Single lever – electronic “fingertip” type

• Forward speeds

1	2	3	4
7.2 km/h	12.2 km/h	27.0 km/h	35.0 km/h

• Reverse speeds

1	2	3
7.2 km/h	12.2 km/h	27.0 km/h

Axles

Rigid front axle and oscillating rear axle designed for heavy duty applications. Limited Slip Differentials with automatic torque transfer. Hermetically sealed final drives and wet disc brakes.

• Rear axle oscillation

20 °

Brakes

• Type

Wet multi disc brakes. Fully hydraulic brake circuit. Independent circuit for each axle. Dual pedal braking system. Electrical transmission disengagement switch.

• Parking brake

Dry disc type. Hydraulic control by means of switch in cab. Brake circuit complies with international standards.

• Standards

ISO3450, EEC 71/320, SAE J1473

Tyres

• Type

Tubeless

• Selection

29.5-R25*1 VSNT(L4)
29.5-25-22PR (L3)
29.5-R25*1 VMT(L3)
29.5-R25*1 VSDL (L5)

Hydraulic System

Hydraulic lines and connecting flanges are equipped with O-ring seals – ideal for loading and transport on uneven terrain.

• Type

Sealed system with anti-cavitation and relief valves

• Pump

Gear type with steel case and automatic wear compensation
Max. flow delivery: 531 l/min
Max. working pressure: 200 kg/cm²

• Control

Pilot, two lever
Double-acting hydraulic cylinders

• Loader arm (2EA)

Bore x stroke: 200 x 902 mm

• Bucket (2EA)

Bore x stroke: 160 x 595 mm

• Operating time

Lift: 6.5 s
Lower: 3.5 s
Dump: 1.3 s

Steering

• Type

Load sensing orbitrol type steering control, fully hydraulic, power steering with flow amplifier

• Pump

Vane type, hydraulic system pump

• Max. flow rate

254 l/min

• Max. working pressure

185 kg/cm²

• Cylinders

Bore x stroke: 110 x 465 mm

Cab

Modular cab allows excellent visibility in all directions.

Cab conforms to:

ROPS - ISO 3471/SAE 1040

FOPS - ISO 3449/SAE J231

• Guaranteed external noise level (LWA)

109 dB(A) (2000/14/EC)

Capacities

• Engine

Lube oil:	34 l
Coolant:	60 l
Fuel tank:	480 l
Transmission oil:	50 l
Hydraulic system:	300 l

• Axles

Front:	50 l
Rear:	50 l

Standard and optional equipment

Standard equipment

- Car stereo (AM/FM)
- 2 Road lights with high/low beams
- 2 Front directional indicators
- 2 Combination : tail light, stop light and directional indicators
- 2 Front and rear working lights
- Hourmeter, speedometer and tachometer
- Electronic display / monitoring system
- Engine coolant temp. gauge
- Torque converter oil temp. gauge
- Fuel level indicator
- Horn
- Fuel level indicator
- Neutral safety start system
- Axle oil cooling system
- Fully adjustable suspension seat and seat belt
- Cab with window washer and wipers and rear view mirrors
- Sunvisor, sliding door windows (LH Only)
- Arm Rest and Wrist Rest
- Front and rear fenders
- Rear frame side covers
- Heater and defroster
- Air conditioner
- Wheel chocks
- Pull hitch
- Automatic electro-magnetic return to dig
- Boom kick-out
- Engine derating system

Optional equipment

- ROPS canopy
- Auxiliary hydraulic function
- Emergency steering
- Fuel feeding pump
- Fork equipment
- Boom float kick-out
- Rotating beacon
- Under guard
- LIS (Boom suspension) system
- 3-spool piping

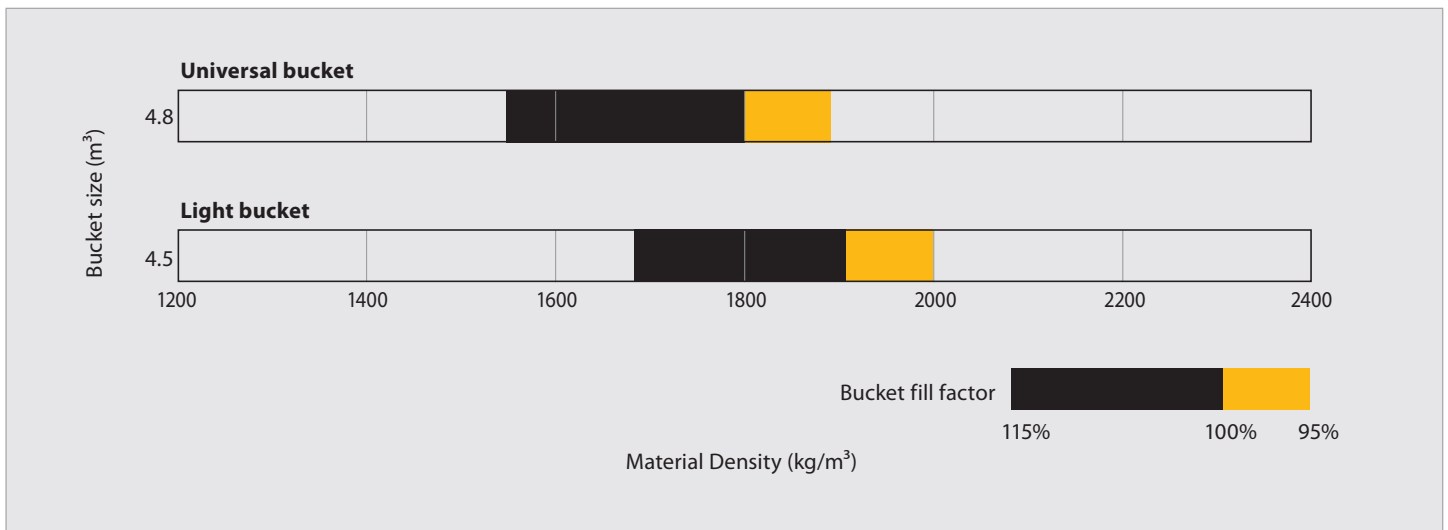
Weights and dimensions (supplemental specifications)

	Operating weight	Overall width (outside tyres)	Height	Static tipping load – straight
Remove ROPS	- 600 kg	-	-	- 500 kg
29.5-R25-VSNT (L4)	+ 970 kg	-	+ 35 mm	+ 800 kg
29.5-R25-VSDL (L5)	+ 2000 kg	-	+ 40 mm	+ 1600 kg
29.5-R25-XHA TL (L3)	+ 400 kg	-	-	+ 320 kg

Typical material densities – loose

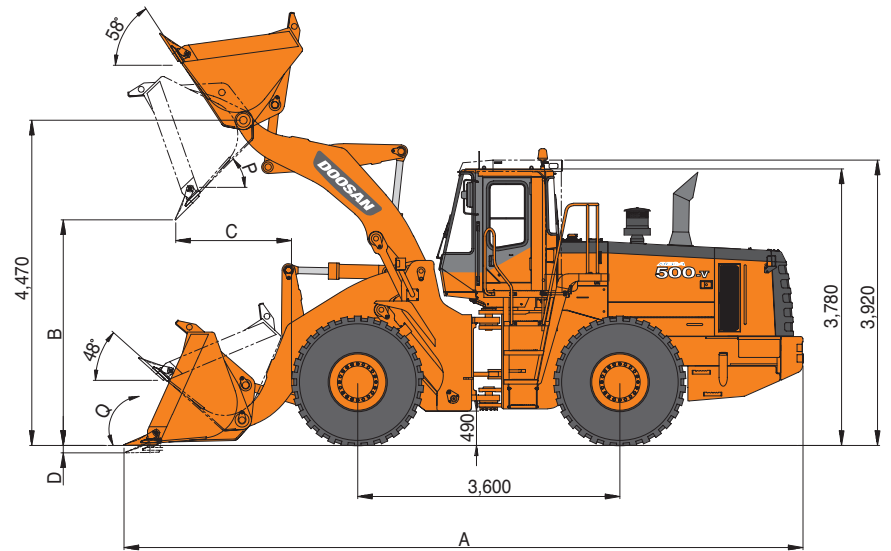
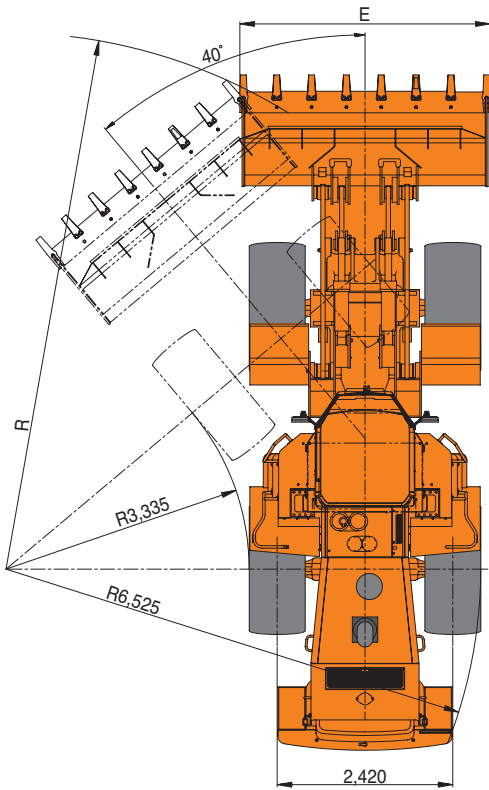
Material	Condition	Density (kg/m)	Material	Condition	Density (kg/m)
Gravel	dry	1510	Clay	natural	1660
	dry, 6-50 mm	1690		dry	1480
	wet, 6-50 mm	2020		wet	1660
Sand	dry	1420	Limestone	soft	1540
	damp	1690		hard	1650
	wet	1840	Stone	crushed	1600
Clay and gravel	dry	1420	Granite	broken	1660
	wet	1540	Slag	broken	1750
Earth	dry	1510	Gypsum	broken	1810
	wet	1600		crushed	1600
Sand and clay	loose	1600	Basalt	-	1960
Sand and gravel	dry	1720	Slate	-	1250
	wet	2020	Sandstone	-	1510

Bucket selection guide – material densities



Standard

[Z-bar linkage]



Specifications

Bucket type		Unit	Universal		Rock-V
			Teeth	Cutting edge	Spade nose with teeth
Capacity (heaped)		m ³	4.8	5.2	4.5
Bucket weight		kg	2500	2700	2800
Bucket width	E	mm	3480	3480	3480
Static tipping load – straight		kg	23000	22830	22750
Static tipping load – full turn (40°)		kg	19800	19660	19600
Breakout force		kg	27000	25000	24500
Overall length	A	mm	9320	9170	9450
Dump height at 45°	B	mm	3080	3200	3030
Dump reach at 45°	C	mm	1520	1410	1480
Digging depth	D	mm	102	90	120
Turning radius at bucket	R	mm	7330	7275	7200
Max. tilt angle on ground	Q	°	43	43	43
Max. dump angle – fully raised	P	°	47	47	47
Operating weight (with ROPS cab)		kg	29800	30000	30100

Measured to tip of bucket teeth or cutting edge with 29.5-25 (L3) tyres.

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