

Skid Steer Loader
MS85L

Operating Weight: 3550 kg

Bucket Capacity: 0.6 m³

The QSB 4.5 from Cummins Inc. USA takes you to a whole new level of power and versatility, with in-cylinder technology that maintains a compact, simple and cost-effective solution. This engine delivers performance that meets the challenge of a wide range of tough industrial applications. With ratings up to 99 hp (74 kW) and a torque rise of up to 50%,the QSB3.9 engine delivers the power you need while minimizing emissions.
At the same time, it provides better cold starting and runs 50% quieter for increased operator comfort. The advanced engine design ensures maintenance is kept to an absolute minimum Designed to provide the operator superior value and reliability, while meeting stringent worldwide emissions standards. Meets Tier 3/Stage IIIA emissions levels using in-cylinder combustion technology without the need for external components Compatible with high-sulfur fuels for worldwide use Uses proven major components for a long life to overhaul The simplicity of design delivers excellent reliability and ease of servicing Efficient fuel systems deliver low levels of fuel consumption For equipment manufacturers, the QSB4,5 is designed to fit your machine. Cummins' engineers will help define your specification for the best and most cost effective installation. The electronic calibration will then be tailored to the exact duty cycle and operation of the machine. This expertise drives the best solution for the OEM and the end user.
Hydraulics and Controls State of the art electro-hydraulic system provides low effort, fine control with fast cycle times. All-in-one joystick helps keep eyes on the work. Operator can adjust machine responsiveness with the push of a button, which allows the operator to set up the machine exactly the way they want it based on the application. High Flow option allows for the use of even the most demanding work tools.

The Torque Converter and Transmission System of MTZ Skid Steer Loader, MS85L has power shift and 4 forward and 4 reverse and Max. Travel Speed is over 18 km/hr. The Axle system gives the maximum power to maintain its movability for the customer's operation. MTZ Skid Steer Loader MS85L crates the maximum mobility to perform at its best.

Cab- All around visibility is further enhanced with the availability of a rearview camera. The deluxe cab ensures operator comfort with a heated, air suspension seat and easy to use controls. Available features such as Implement and I lystat Aggressiveness, Ride Control, Lift and Tilt Kickouts, Fork/Bucket Mode and Rimpull Control allow the operator to customize the machine via a soft touch keypad.

Drivetrain-MTZ Skid Steer Loader' Smooth shifting and powerful acceleration is matched with modulated hydrostatic braking in the inching/braking pedal, creating a rhythm for material moving. Creeper and electronic engine speed control makes broom and snow blower work easy. Operator tunes between smooth or aggressive shifting with the push of a button.

Serviceability-Extended service intervals and excellent service access make daily checks quick and easy allowing you to get to work sooner. Efficiently Powerful with its high full turn tipping loads, powerful breakout torches and increased engine power delivers a balanced solution for all customer applications.
Standard Fuel Savings Feature such as Eco Mode, On Demand Cooling Fan, and Auto Engine Idle Shutdown make the MS85L both powerful and fuel efficient.

Specifications

Engine

Engine Model	: QSB 4.5 (Tier 3)	
Maximum Gross Power	: 74 kW	99 HP
Maximum Engine Speed	: 2200 RPM	
Rated Engine Speed	: 1800 RPM	
Displacement	: 4.5 Ltr	(275 in3)
Bore	: 102 mm	(4.02 in3)
Stroke	: 137 mm	(5.39 in3)

Maximum Gross Troque : 360 N-m @ 1300 rpm
Engine Type: In-line, 4 Cylinder

Aspiration: Turbocharged/charge air cooled

Oil system capacity : 15-25 U.S/Canada QT, 4.5 Liters
High-pressure common-rail fuel system- Allows multiple injection event for cleaner, quieter operation with consistent performance at every rpm. Also improves cold-weather starting.

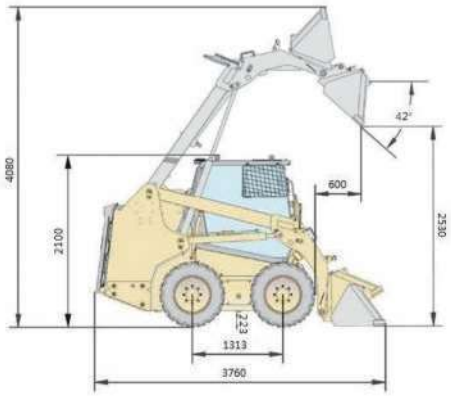
Engine meets Tier 3/ Euro III Emission Standards.
Net power advertised is the power available at the flywheel plus front drive implement pump when the engine is equipped fan, air-cleaner and alternator

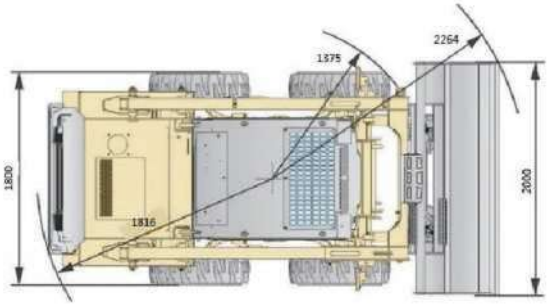
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Skid Steer Loader MS85L

Dimensions and Operating Specifications





1. Overall Length (with Buccket)	3760 mm
2. Overall Width	2000 mm
3. Overall Height (Cab)	2100 mm
4. Wheel Base	1313 mm
5. Min. Ground Clearance	223 mm
6. Departure Angle	+/- 36 Degree
7. Max. Turning Radius	6581 mm
8. Max. Dump Height	2530 mm
9. Max. Dump Angle	42 Degree
10. Wheel Rack	1500 mm

11. Bucket Capacity	0.6 m3
12. Load Capacity	1250 Kg
13. Breakout Force	3550 Kg
14. Tipping Load Capacity	2480 Kg
15. Max. Breakout Force	30 kN
16. Max. Tractive Force	30 kN
17. Total Cycle Tiime	10 Sec.
18. AC Cabin (ROPS/FOPS)	ISO3471:2008/ISO3449:2005
19. Tire Size (Front & Rear)	12-16.6
20. Electrical System	12 Volts Heavy Duty Battery

Drive System

Drive Pump: 45 CC + 45 CC
Boom and Bucket Pumps: 35 cc@220 Bar

Hydraulic

Flow Rate	:85 Ltr./Min @ 220 Bar
High Auxilary Flow	:142.5 Ltr./Min
Standard Auxiliary Flow	:95 Ltr./Min

Working Range (Loading)

Rated Bucket Capacity	:0.6 m3
Rated Load Capacity	:1250 Kg
Max. Dumping Clearance	:2530 mm

Refill Capacity

Fuel Tank Capacity: 95 Ltr.

Hydraulic Tank Capacity: 80 Ltr.

Engine Crank Case: 13 Ltr.

Engine Oil Capacity: 12 Ltr.

Brake System

Traveling Brake: Fully Hydraulic (Maintenance Free Wet Disc)
Parking Brake: Flexible Shaft Control (Wet Type Braking)

Travel Speed

Forward or Reverse-Two Speed: 18 km/hr.

Forward or Reverse-One Speed: 12 km/hr.

Noise Level

Inside Cab: 85 dB(A)
Outsdie Cab: 100 dB(A)

Cabin

Fully Air Conditioned Cabin

Control

Fully Joystic controlled for easy operation

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