Backhoe Loader

MW10B

Operating Weight : 9000 kg
Bucket Capacity : 1.0 m³



The QSB3.9 from Cummins 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 QSB3.9 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 Backhoe Loader, MW10B has power shift and 4 forward and 4 reverse and Max. Travel Speed is over 38 km/hr. The Axle system gives the maximum power to maintain its movability for the customer's operation. MTZ Backhoe Loader MW10B 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 Backhoe Loaders' 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 920 both powerful and fuel efficient.

Specifications

Engine

Engine Model	: QSB 3.9 (Tier 3)	
Maximum Gross Power	: 97 kW	130 HP
Maximum Engine Speed	: 2500 RPM	
Rated Engine Speed	: 2200 RPM	
Displacement	: 3.9 Ltr	(275 in3)
Bore	: 102 mm	(4.02 in3)
Stroke	: 120 mm	(4.72 in3)

Maximum Gross Troque : 475 N-m @ 2200 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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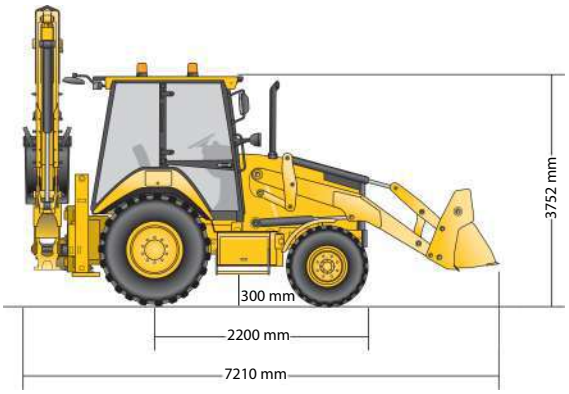
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Printed in Canada

MW10B Backhoe Loader

Dimensions and Operating Specifications





1. Overall Length	7210 mm
2. Overall Width	2465 mm
3. Overall Height	3752 mm
4. Wheel Base	2200 mm
5. Ground Clearance	300 mm
6. Steering Angle	+/- 36 Degree
7. Turning Radius	6581 mm
8. Grade Ability	30°
9. Pump Capacity	50 Ltr./min
10. Dumping Angle	45°

11. Engine (Make and Model)	Cummins QSB3.9
12. Rated Power	97 kW (130 HP) @ 2500 rpm
13. Peak Toque	475 N.m @ 2200 rpm
14. Displacement	3.9 Ltr.
15. Emission Standard	Tier 3
16. Engine Type	4 Storke, 4 Cylinder in Line
17. Bore	102 mm
18. Stroke	120 mm
19. Tire Size (Front & Rear)	14-17.5 & 19.5-L-24
20. Electrical System	12 Volts Heavy Duty Battery

Steering System

Type of Steering Pump: Gear Pump
Type of Redirector: Standard
Type of Priority Valve: Standard

Working Range (Digging)

Rated Bucket Capacity : 0.3 m3
Max. Digging Depth : 4084 mm
Max. Digging Force : 49.8 kN
Max. Digging Radius : 5467 mm
Max. Dumping Height : 3795 mm

Working Range (Loading)

Rated Loading Capacity : 2500 Kg
Rated Bucket Capacity : 1.0 m3
Max. Breakthrough Force : 47 kN
Max. Lifting Height : 3400 mm
Max. Dumping Clearance : 3020 mm

Refill Capacity

Fuel Tank Capacity: 130 Ltr.
Hydraulic tank capacity: 300 Ltr.
Engine Oil Capacity: 12 Ltr.
Oil for Converter and Gear Box: 28 Ltr.
Oil for Hydraulic System: 130 Ltr.
Antifreeze Liquid: 25 Ltr.
Urea Solution/AdBlue: 11.5 Ltr.

Brake System

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

Transmission System

Torque Converter: CARRARO (ITALY)
Colling Type: Pressure Oil Circulating
Transmission Case: CARRARO (ITALY)
Type: Power Shift
Gear Sift: Forward/Reverse
Forward/Reverse 1: 6/6 km/hr.
Forward/Reverse 2: 9.6/9.6 km/hr.
Forward/Reverse 3: 20.5/20.5 km/hr.
Forward/Reverse 4: 38/38 km/hr.

Working Hydraulic System

Type of Oil Pump: Gear Pump
System Pressure: 20 Mpa
Type of Multi-Way Directional Valve: Pilot Control

Axle

Make: CARRARO (ITALY)
Type of Main Reducer: Spiral Bevel Gear, Single Stage
Type of Final Reducer: Single Stage, Planetary

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