

The QSB6.7 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 179 HP (139 kW) and a torque rise of up to 50% of its peak performance. The QSB6.7 engine delivers the power you need while minimising emissions. At the same time, it provides better cold starting and runs 50% quieter for increased operator's comfort. The advanced engine's design ensures to boost up absolute performance of loading and dumping.

Designed to provide the operator superior value and reliability, while meeting stringent worldwide emissions standards. • Meets Tier 3/Stage IIA 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 QSB6.7 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 Wheel Loader, MW42L has power shift and 4 Forward and 4 Reverse and Max. Travel Speed is over 40 km/hr. The Axle system gives the maximum power to maintain its movability for the operator's operation. MTZ Wheel Loader MW42L 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 Hystat 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 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 forces and increased engine power delivers a balanced solution for all customer applications.

Standard fuel savings features such as eco mode, on demand cooling fan, and auto engine idle shutdown make the MW42L both powerful and fuel efficient.

Specifications

Engine

Engine Model	: CUMMINS QSB6.7	
Maximum Engine Speed	: 2200 RPM	
Maximum Gross Power	: 129 kW	173 HP
Rated Net Power	: 1400 RPM	
Displacement	: 6.7 L	408 in
Bore	: 107 mm	421 in
Stroke	: 124 mm	4.88 in

Engine (continued)

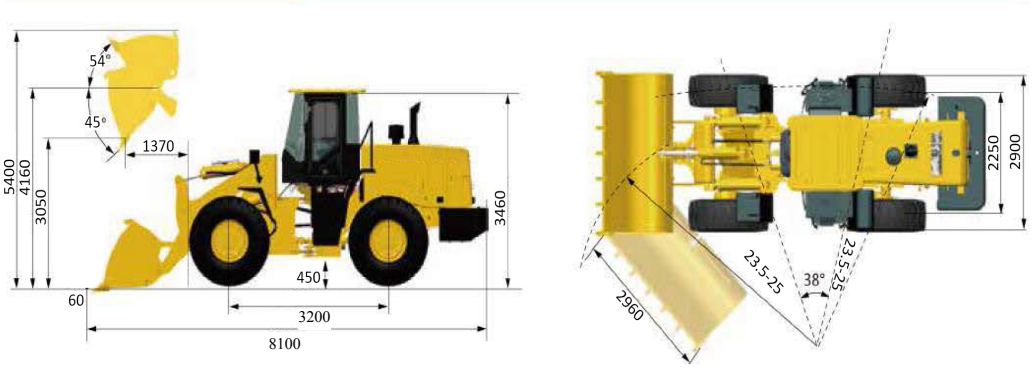
Maximum Gross Torque : 799N-m @1400 RPM
Engine type: In-line, 6-cylinder
Aspiration: Turbocharged/charge air cooled
Oil system capacity 25.3 US/Canada QT, 23.9 liters
High-pressure common-rail fuel systern - Allows multiple injection events for cleaner, quieter operation with consistent performance at 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 with fan. air cleaner, muffler and alternator.

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Dimensions and Operating Specifications (All dimensions are approximate. Dimensions vary with bucket and tire choice.)



Overall Height Top of Cab: 3460 mm
Overall Length: 8100 mm
Overall Width: 2900 mm
Ground Clearance: 450 mm
Wheel Base: 3200 mm
Breakout Force: 168 kn
Dump Clearance: 3058 mm
Articulated Angle: 38±1°
Lifting Capacity: 800 mm
Blade Width: 2960 mm

Steering System

Pattern Full hydraulic steering system, Articulated type
Min. turning radius (outside of bucket): 7268mm
Max. turning angle: 38°±1

Implement Hydraulic System

Displacement: 250Ltr./min System
working pressure: 35 MPa
Distribution device model: 32 Pilot
Valve Model: DJS

Tire Size: 23.5-25

Refill Capacity

Fuel Tank Capacity: 270 Ltr.
Hydraulic tank capacity: 108 Ltr.

Hydraulic: A2FO, REXROTH, USA
Implement System Type: Twin pump flow merging hydraulic system
Boom Raise Time: 5.13 s
Hydraulic Cycle Time: 9.5 s
System Presure Setting: 35 Mpa
Brake System: Hydraulic
Service Brake: Front & Rear independent brake circuit
Parking Brake: Wet disc brake
Tire Size: 23.5-25 (Bridgestone/Michelin/Dunlop)
Blade Capacity: 3.5 m3

Axles

Drives: Four-Wheel Drive (4WD)
Front Axle: Spiral Bevel Gear, Single Stage
Rear axle: Spiral Bevel Gear, Single Stage
Angle of oscillation: A Plus/Minus 16 Degree

Transmission System

Reverse speeds
Forward 1: 7.8 km/hr.
Forward 2: 15 km/hr.
Forward 3: 22 km/hr.
Forward 4: 29 km/hr.
Reverse 1: 7.8 km/hr.
Reverse 2: 15 km/hr.
Reverse 3: 22 km/hr.
Reverse 4: 29 km/hr.

Electrical System

2x12 Volts heavy duty battery

Cab:

The cab (ROPS) with Air Condition comfortable for the operator with a roomy, quiet, and efficient work environment. Doors for easy entry/ exit and an adjustable seat for the operator.

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