MTZ Equipment Ltd.

Amphibious Excavator
MT210

3-1136 Centre St, Ste. 124., Thornhill, Ontario, Canada L4J 3M8
Tel.: 1-855-2GO-4MTZ (1-855-246-4689)
Fax: 1-647-933-9066

MTZ Equipment Ltd.

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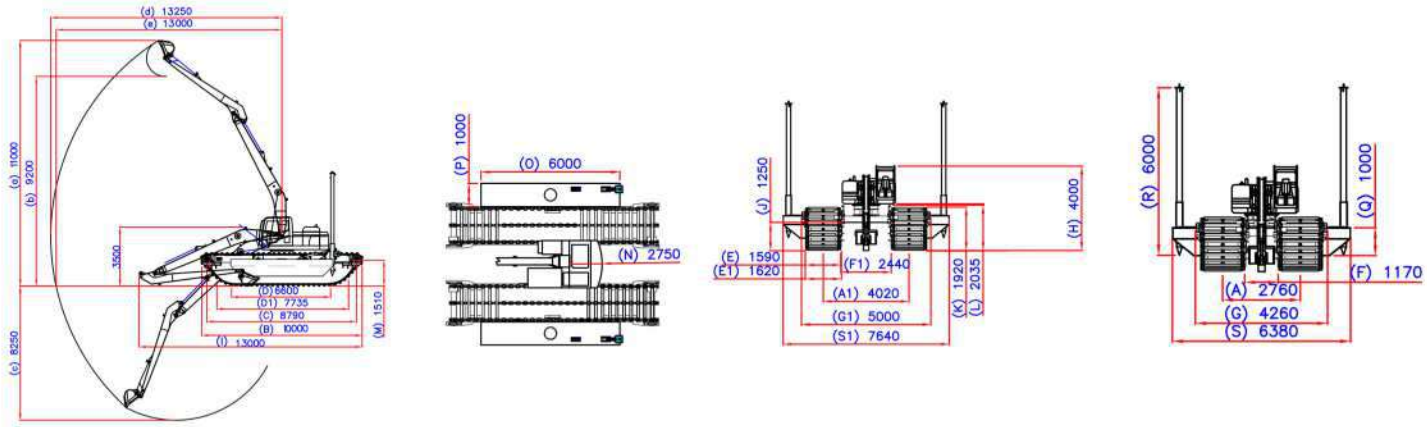
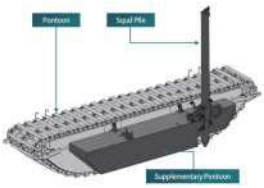
MT210 AMPHIBIOUS EXCAVATOR



SPECIFICATION

ITEM			UNIT	VALUE
BASE MACHINE			13 TON EXCAVATOR	
TOTAL WEIGHT		WITHOUT SIDE PONTOON	Kg	28000
FLOAT CAPACITY			m3	40
FLOAT CAPACITY/TOTAL WEIGHT			M3/ton	1.25
MAXIMUM TORQUE			kgf-m	2616
GROUND PRESSURE			KG/cm2	0.16
TRAVEL SPEED	HI		mm	3.6
	LO		mm	2.3
MAXIMUM GRADIENT			°	30
WORK EQUIPMENT	BOOM LENGTH		mm	7750
	ARM LENGTH		mm	5150
	BUCKET CAPACITY		mm3	0.5
WORKING RANGE	a. MAX. DIGGING HEIGHT		mm	11000
	b. MAX. DUMPING HEIGHT		mm	9200
	c. MAX. DIGGING DEPTH		mm	8250
	d. MAX. DIGGING REACH		mm	13250
	e. MAX DIGGING REACH ON GROUND		mm	13000
DIMENSIONS	A. TRACK GAUGE (FULLY RETRACTED)		mm	2760
	A1. TRACK GAUGE (FULLY EXTENDED)		mm	4020
	B. TRACK LENGTH		mm	10000
	C. DISTANCE BETWEEN IDLER & SPROCKET		mm	8790
	D. TRACK LENGTH ON HARD GROUND		mm	6600
	D1. TRACK LENGTH ON SOFT GROUND		mm	7735
	E. WIDTH TRACK SHOE		mm	1590
	E1. WIDTH FLOAT		mm	1620
	F. DISTANCE BETWEEN SHOE INSIDE (FULLY RETRACTED)		mm	1170
	F1. DISTANCE BETWEEN SHOE INSIDE (FULLY EXTENDED)		mm	2440
	G. OVERALL MACHINE WIDTH (FULLY RETRACTED)		mm	4260
	G1. OVERALL MACHINE WIDTH (FULLY EXTENDED)		mm	5000
	H. OVERALL MACHINE HEIGHT		mm	4000
	I. OVERALL MACHINE LENGTH		mm	13000
	J. MIN. GROUND CLEARANCE		mm	1250
	K. SHOE SETTING HEIGHT		mm	1920
	L. CRAWLER HEIGHT		mm	2035
	M. WATER LINE LEVEL		mm	1510
	N. MIN SWING RADIUS		mm	2750
ADDITIONAL DIMENSIONS (SIDE PONTOON)	O. SIDE PONTOON LENGTH		mm	6000
	P. SIDE PONTOON WIDTH		mm	1000
	Q. SIDE PONTOON HEIGHT		mm	1000
	R. SPUD LENGTH		mm	6000
	S. OVERALL MACHINE WIDTH (FULLY RETRACTED)		mm	6380
	S1. OVERALL MACHINE WIDTH (FULLY EXTENDED)		mm	7640



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**DIMENSION ARE BASED ON 13.5M LONG REACH ARM & 0.5M3 GP BUCKET CAT 313

**SPECIFICATION ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICED

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WHEEL EXCAVATOR

M210W

Operating Weight 21000 KG
Bucket 1.0 M^3

The QSB 6.7 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 205 hp (153 kW) and a torque rise of up to 50 %, the QSB 6.7 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-III emissions levels using in-cylinder combustion technology without the need for external components Compatible with high sulfur fuels for worldwide 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 QSB 6.7 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 Wheeled Excavator, M210W has Power-shift and forward and reverse and Max U Travel Speed is over 17 km/hr. The Axle system gives the maximum power to maintain its mobility for the customer satisfaction. MTZ Wheeled Excavator, M210W crates the maximum mobility top format of 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 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 Featur essuch as Eco Mode, On Demand Cooling Fan, and Auto Engine Idle Shutdown make the 920 both powerful and fuel efficient.

Specifications

Engine

Engine Model	: CUMMINS QSB6.7
Maximum Gross Power	: 1800 RPM
Maximum Engine Speed	: 153 kW 205 HP
Rated Net Power	: 1100 RPM
Rated Engine Speed	: 1800 RPM
Displacement	: 6.7 L 354 in
Bore	: 107 mm 4.21 in
Stroke	: 124 mm 4.88 in

Engine (continued)

Maximum Gross Torque Engine type: 931 N-m @ 1300 RPM
In-line, 6-cylinder

Aspiration: Turbocharged/ charge air cooled

Oil system capacity 15-25 U.S./Canada QT, 14.2-23.9.7 liters

High-pressure common-rail fuel system – 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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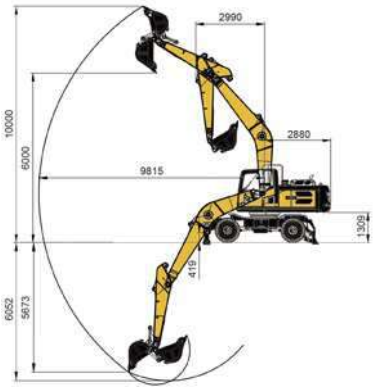
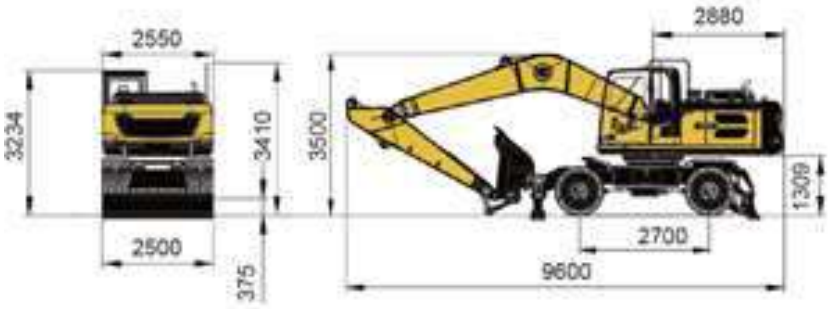
Dimensions and Operating Specifications(All dimensions are approximate





1. Arm Length	2990 mm
2. Boom Length	5700 mm
3. Overall Length	9600 mm
4. Overall Width	2500 mm
5. Overall Height	3500 mm
6. Cabin Height	3234 mm
7. Wheelbase	2700 mm
8. Tread	1914 mm
9. Min. Ground Clearance	380 mm
10. Tail Swing Radius	2890 mm

11. Bucket Capacity	1.0 m3
12. Swing Speed	0-12 rmp
13. Gradability	25 Degree
14. Max. Bucket Digging Force	140 kN
15. Max. Arm Digging Force	100 kN
16. Engine (Make and Model)	Cummins Inc. USA QSB6.9
17. Engine Rated Power	153 kW (205 HP) @ 1800 rpm
18. Tire Size	10.00-20
19. System Pressure	34 Mpa
20. Electrical System	2x12 Volts Heavy Duty Battery

Steering system

Pattern Full hydraulic steering system, Articulated type
Min. Turning Radius: 4680 mm
Max. turning angle: 35°±1

Working Range:

Max. Digging Height :10000 mm
Max. Dumping Height : 6000 mm
Max. Digging Depth : 6052 mm
Max. Digging Radius : 9815 mm
Min. Swing Radius : 2990 mm
Max Dozer Blade Tilting Dis : 419 mm
Max Dozer Blade Cutting Dis: 74 mm

Refill Capacity:

Fuel Tank Capacity: 300 Ltr.
Hydraulic tank Capacity: 300 Ltr.
Engine Oil Capacity: 12 Ltr.

Brake system:

Brake system: Air assisted oil disc on four wheel
Parking brake: Air cutting control inner eapand hoof

Transmission System

Reverse speeds
Forward 1: 5.9 km/hr.
Forward 2: 10.4 km/hr.
Forward 3: 18.1 km/hr.
Forward 4: 31.3 km/hr.
Reverse 1: 6.7 km/hr.
Reverse 2: 11.8 km/hr.
Reverse 3: 20.6 km/hr.
Reverse 4: 35.5 km/hr.

Travel Speed: 30 km/hr.

Blade:

Width : 2400 mm
Height : 410 mm
Lift Height: 430 mm

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DL220

WHEEL DOZER

Operating Weight: 20113 Kg

The QSL9 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 365 hp (272 kW) and a torque rise of up to 50%, the QSL9 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 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 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 QSL9 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 Dozer, DL220 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 customer's operation. MTZ Wheel Dozer DL220 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 Dozer 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 Featuressuch as Eco Mode, On Demand Cooling Fan, and Auto Engine Idle Shutdown make the 920 both powerful and fuel efficient.

Specifications

Engine

Engine Model	CUMMINS QSL9	
Maximum Gross Power:		
Maximum Engine Speed	2100 RPM	
Rated Net Power:	272 kW	365 HP
Rated Engine Speed	1100 RPM	
Displacement	8.9 L	544 in³
Bore	114 mm	4.48 in
Stroke	144 mm	5.66 in

Engine (continued)

Maximum Gross Torque	1113 N-m @1500 RPM

Engine type: In-line, 6-cylinder

Aspiration: Turbocharged/ charge air cooled

Oil system capacity 24 U.S./Canada QT, 22.7 liters

High-pressure common-rail fuel system – 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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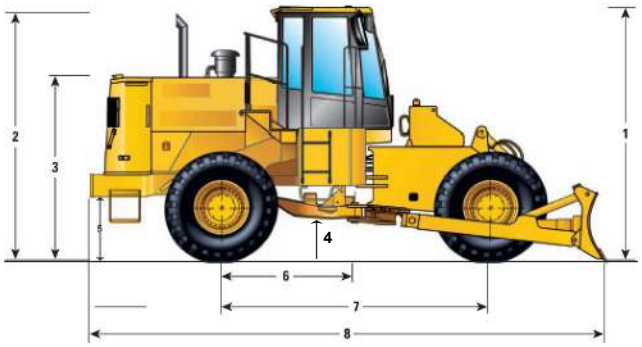
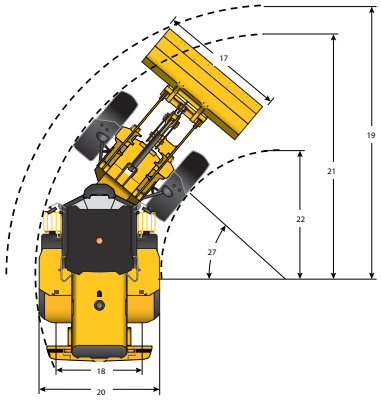
Dimensions and Operating Specifications (All dimensions are approximate. Dimensions vary with bucket and tire choice.)





* Height to Top of Cab 3450 mm
* Height to Top of Exhaust Pipe 3304 mm
* Height to Top of Hood 2373 mm
* Height to Bottom of Ladder 441 mm
* Ground Clearance 350 mm
* Center Line of Rear Axle to Edge of Bumper 1871 mm
* Wheelbase (mm): 3400
* Total Length (mm): 7200
* Lifting Capacity: 800 mm
* Blade Width: 3600 mm

* Turning Radius Over Bucket : 7166 mm
* Overall Width : 3200 mm
* Turning Radius: 4877 mm
* Turning Radius inside of Tires: 2583 mm
* Wheel track (mm): 2240
* Maximum lift height of dozer blade: 1060
* Maximum down depth of dozer blade(mm): 400
* Blade Height: 1000 mm
* Blade Type: Straight blade and Tilting
* Gradeability: 20%

Steering system

8. Blade Capacity: 4.5 m3

Pattern Full hydraulic steering system, Articulated type
Min. turning radius(outside of bucket): 7268mm
Max. turning angle: 35°±1

Implement hydraulic system

Displacement: 250L/min
System working pressure: 20.3MPa
Distribution device model: 32
Pilot valve model: DJS

Tire size 23.5-25

Refill Capacity

Fuel Tank Capacity: 500 Ltr.
Hydraulic tank capacity: 204 Ltr.

Brake system

Brake system: Air assisted oil disc on four wheel
Parking brake: Air cutting control inner eapand hoof

Transmission System

Reverse speeds
Forward 1: 5.9 km/hr.
Forward 2: 10.4 km/hr.
Forward 3: 18.1 km/hr.
Forward 4: 31.3 km/hr.
Reverse 1: 6.7 km/hr.
Reverse 2: 11.8 km/hr.
Reverse 3: 20.6 km/hr.
Reverse 4: 35.5 km/hr.

Electrical System

2x12 Volts heavy duty battery

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Wheel Loader
MW35L

Operating Weight:11500 Kg
Bucket Capacity:1.3 m³

The QSB4.5 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 128 hp (95 kW) and a torque rise of up to 50%,the QSB4.5 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 Wheel Loader, MW35L 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 Wheel Loader MW35L 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 Wheel 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	:CUMMINS QSB4.5
Maximum Gross Power	:95 kW 128 HP
Maximum Engine Speed	:1400 RPM
Rated Engine Speed	:1100 RPM
Displacement	:4.5 Ltr. (275 c3)
Bore	:102 mm (4.02 in3)
Stroke	:137 mm (5.39 in3)

Engine (continued)

Maximum Gross Torque
546 lb-ft (403 N-m) @1400 RPM
Engine type: In-line, 6-cylinder

Aspiration: Turbocharged/charge air cooled
Oil system capacity 24 U.S./Canada QT, 22.7 liters
High-pressure common-rail fuel system - 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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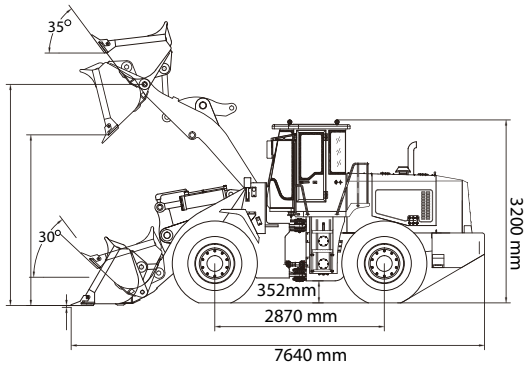
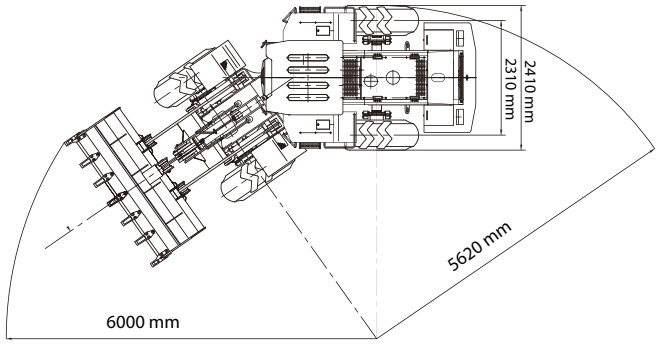
Wheel Loader MW35L

Dimensions and Operating Specifications





1. Overall Length (With Attachment)	7640 mm
2. Overall Width (of Tire)	2310 mm
3. Overall Width	2410 mm
4. Overall Height (Cab)	3200 mm
5. Min. Ground Clearance	352 mm
6. Steering Angle (at Anyside)	+/- 35 Degree
7. Departure Angle	+/- 30 Degree
8. Wheel Base	2870 mm
9. Min. Turning Radius (Bucket)	6000 mm
10. Min. Turning Radius (Tire)	5620 mm

11. Steering Type:	Steering Wheel
12. Steering Pressure:	16 MPa
13. Cylinder Bore/Piston Rod	80 mm/45 mm
14. Displacement of Pump	100 mL/r
15. Travel of Cylinder	362 mm
16. Hydraulic Work Pump	Gear Pump
17. System Pressure	16 MPa
18. Lifting/Unloading Duration	6.0/1.5 S
19. Tire Size (Front & Rear)	17.5-25/L3 (Diagonal)
20. Electrical System	24 Volts; 120/2 Amp

Hydraulic System
Work Pump Type: Gear Pump
System Pressure: 16 MPa
Control Type: Joystick Lever

Performance Parameters

Bucket Capacity	: 2.0 m3
Tipping Load	: 7800 kg
Break Out Force	: 95 kN
Pivot Height (At Max)	: 4055 mm
Max. Dumping Height	: 3125 mm
Unloading height (At Max)	: 1155 mm
Digging Depth	: 102 mm
Max. Lifting Height	: 3400 mm
Max. Dumping Clearance	: 2740 mm

Refill Capacity
Fuel Tank Capacity: 210 Ltr.
Hydraulic Tank Capacity: 210 Ltr.
Engine Oil Capacity: 14 Ltr.
Antifreeze Liquid: 47 Ltr.
Drive Oil: 53 Ltr
Drive Axle/Single: 40 Ltr..
Urea Solution/AdBlue: 12 Ltr.

Brake System
Service Brake: Air Assisted against Oil Caliper Disc Brake
Parking Brake: Cable-controlled type clamp Brake.

Transmission System
Torque Converter: CARRARO (ITALY)
Type: Electronically Controlled, 2 Motors Hydrostatic
Transmission Case: CARRARO (ITALY)
Type: Summation Gear Box
Gear Sift: Front fixed to the front frame, Rear center Pivot Type
Gear Box: Fixed Gear Ratio, Power Shift Counter; Shaft Type
Travel Speed: Forward: 36 km/hr. Reverse: 16 km/hr.

Working Hydraulic System
Type of Oil Pump: Gear Pump
System Pressure: 20 Mpa

Drive Axle
Make: CARRARO (ITALY)
Type: Heavy Duty
Swing Angle: +/- 10 Degree

Cabin
Cab is equipped with a 4-point elastic suspension, absorbing shock in a dual way. Rearhood has beautiful modeling, with its side door and rear window able to open, featuring easy maintenance.

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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

3-1136 Centre St, Ste. 124., Thornhill, Ontario, Canada L4J 3M8
Tel.: 1-855-2GO-4MTZ (1-855-246-4689)
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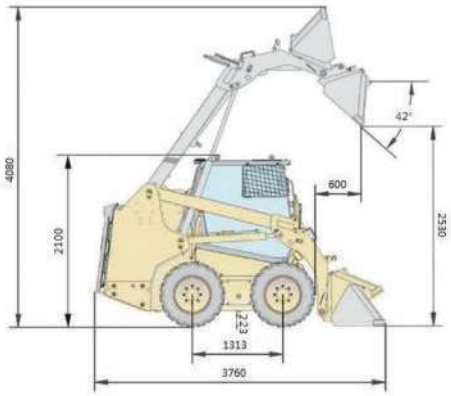
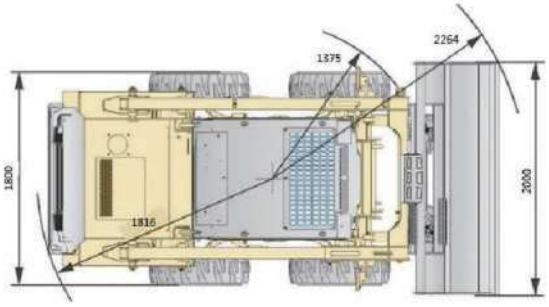
Website: www.mtzequipment.ca

MTZ Equipment Ltd.
Printed in Canada

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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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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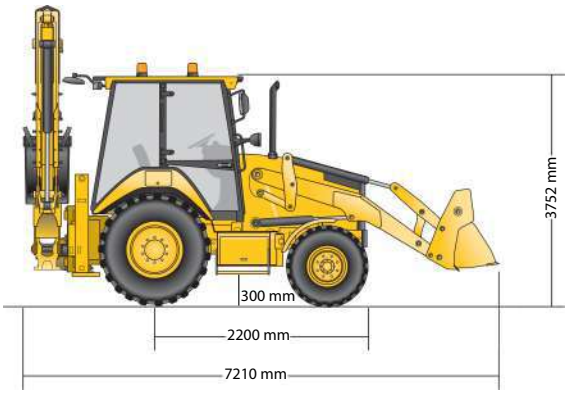
MW10B Backhoe Loader

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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