

PRODUCT SPECIFICATIONS FOR 908M

US Metric

Rated Net Power - 2,400 rpm - SAE J1349 53.6 kW

Engine Model Cat® C3.3B DIT*

Emissions *The Cat C3.3B DIT engine meets EU Stage V/U.S. EPA Tier 4 Final emission standards.

Maximum Gross Power - ISO 14396 54.6 kW

Note (6) Stage V engine available for Europe only.

Note (3) No derating required up to 3000 m (10,000 ft) altitude. Auto derate protects hydraulic and transmission systems.

Note (5) The Cat C3.3B DIT Tier 4 Final/Stage V uses an active regeneration system which requires no operator interaction under normal conditions.

Note (2) Net power shown is the power available at the flywheel when the engine is equipped with alternator, air cleaner, diesel exhaust filter, and fan at minimum speed.

Displacement 3.3 l

Rated Net Power - ISO 9249 53.6 kW

Stroke 120 mm

Bore 94 mm

Note (4) Flywheel per the SAE reference conditions with the fan at maximum speed.

Note (1)

Net power ratings are tested at the reference conditions for the specified standard.

Maximum Gross Power - ISO 14396 (metric)

74.2 HP

Operating Weight

6365 kg

Note

Specifications shown are for a machine configured with general purpose buckets, bolt-on cutting edges, 75 kg (165 lb) operator, Dunlop 405/70 SPT9 tires, full fuel, comfort ROPS cab, standard flow hydraulics and skid-steer coupler. The 908M is configured with a 1.1 m³ (1.44 yd³) bucket with bolt-on cutting edge.

Fuel Tank

78 l

Hydraulic System - Including Tank

72 l

Cooling System

16.5 l

Axles - Front

N/A

Axles - Rear

N/A

Transmission - Gear Box

11 l

Hydraulic Tank

46 l

Rated Bucket Capacity

1.1 m³

Reach - Full Lift and 45° Dump

931 mm

Full Turn Tipping Load

3770 kg

Tipping Load - Full Turn - ISO 14397-1	3606 kg
Clearance - Full Lift and 45° Dump	2463 mm
Steering Articulation Angle - Each Direction	39°
Tipping Load - Straight - ISO 14397-1	4427 kg
Maximum Flow - Implement Pump	82 l/min
Relief Pressure - Tilt Cylinder Rod	19000 kPa
Maximum Flow - Implement Pump - Auxiliary Function Standard Flow	82 l/min
Relief Pressure - Tilt Cylinder Head	31000 kPa
3rd Function Maximum Working Pressure	23500 kPa
Maximum Flow - Implement Pump - Auxiliary Function High Flow	126 l/min
Maximum Working Pressure - Implement Pump	23500 kPa
Hydraulic Cycle Time - 1,000 rpm - Raise, Ground Level to Maximum Lift	9.6 s
Tilt Cylinder, Double Acting - Stroke	416 mm
Lift Cylinder, Double Acting - Bore Diameter	85 mm
Hydraulic Cycle Time - 1,000 rpm - Dump, at Maximum Lift Height	3 s
Tilt Cylinder, Double Acting - Rod Diameter	55 mm
Hydraulic Cycle Time - 1,800 rpm - Float Down, Maximum Lift to Ground Level	2.6 s

Lift Cylinder, Double Acting - Stroke 699 mm

Hydraulic Cycle Time - 1,800 rpm - Dump, at Maximum Lift Height 1.5 s

Boost Flow Maximum Pressure 22000 kPa

Lift Cylinder, Double Acting - Rod Diameter 50 mm

Hydraulic Cycle Time - 1,000 rpm - Float Down, Maximum Lift to Ground Level 2.6 s

Tilt Cylinder, Double Acting - Bore Diameter 100 mm

Hydraulic Cycle Time - 1,800 rpm - Total Cycle Time 9.6 s

Hydraulic Cycle Time - 1,800 rpm - Raise, Ground Level to Maximum Lift 5.5 s

Length - Wheel Base 2170 mm

Width - Tread Center 1570 mm

Departure Angle 33°

Operating Weight 6499 kg

Height - Ground to Cab** 2650 mm

Reach - Bucket at 45°* 770 mm

Clearance - Level Bucket** 3215 mm

Length - Overall* 5630 mm

Machine Width 1085 mm

Machine width	1985 mm
Turning Radius - Inside of Tires	2080 mm
Clearance - Bucket at 45° *	2620 mm
Width - Bucket	2080 mm
Note (3)	Dimensions listed are for a machine configured with general purpose buckets, bolt-on cutting edges, 75 kg (165 lb) operator, no air conditioner and Dunlop 405/70 SPT9 tires.
Height - Ground Clearance**	340 mm
Note (1)	*Vary with bucket.
Dump Angle at Full Lift	45°
Height - Bucket Pin**	3410 mm
Note (2)	**Vary with tire.
Articulation Angle	39°
Dig Depth**	101 mm
Turning Radius - Over Bucket	4530 mm
Operating Weight	6497 kg
Machine Width	1985 mm
Length - Overall*	5780 mm

Height - Ground Clearance**	340 mm
Width - Tread Center	1570 mm
Clearance - Level Bucket**	3215 mm
Articulation Angle	39°
Turning Radius - Inside of Tires	2080 mm
Length - Wheel Base	2170 mm
Departure Angle	33°
Note (1)	*Vary with bucket.
Clearance - Bucket at 45° *	2505 mm
Height - Ground to Cab**	2650 mm
Reach - Bucket at 45°*	866 mm
Note (2)	**Vary with tire.
Turning Radius - Over Bucket	4534 mm
Dig Depth**	109 mm
Dump Angle at Full Lift	45°

Note (3)

Dimensions listed are for a machine configured with general purpose buckets, bolt-on cutting edges, 75 kg (165 lb) operator, no air conditioner and Dunlop 405/70 SPT9 tires.

Height - Bucket Pin**

3410 mm

Width - Bucket

2080 mm

Bucket Capacities

0.75-1.5 m³ (1.0-2 yd³)

Note

All capacities are applicable for each model. Bucket selection must be made with an understanding of the material density and application to ensure machine stability is maintained within the tipping loads stated per model and configuration.

Bucket Capacities - ISO Coupler

0.75-1.5 m³

General Purpose

0.8 m³ (1 yd³), 0.9 m³ (1.2 yd³), 1 m³ (1.3 yd³), 1.1 m³ (1.4 yd³), 1.3 m³ (1.7 yd³)

Grapple

0.9 m³ (1.2 yd³) heaped

Multi-Purpose

0.75 m³ (1 yd³), 0.9 m³ (1.2 yd³), 1.05 m³ (1.37 yd³)

Light Material

1.2 m³ (1.6 yd³), 1.5 m³ (2 yd³)

Bucket Capacities - SSL Style Coupler

1.0-2 yd³

ROPS

ROPS: ISO 3471:2008

FOPS

FOPS: ISO 3449:2005 Level II

Note (3)

*The measurements were conducted with the cab doors and windows closed.

Note (2) The declared dynamic operator Sound Pressure level per ISO 6396:2008*, when the cab is properly installed and maintained, is 75 dB(A). The labeled sound power level for the CE marked configurations when measured according to the test procedure and conditions specified in 2000/14/EC is 101 dB(A). Optional Low Sound or Blue Angel selection will reduce this to 99 dB(A).

Note (1) Cat cab and Rollover Protective Structures (ROPS) are standard in North America and Europe.

Reverse - High Range 35 km/h

Forward - High Range 35 km/h

Reverse - Range 1 10 km/h

Forward - Range 2 20 km/h

Reverse - Range 2 20 km/h

Forward - Range 1 10 km/h

Nominal Flow - Steering Pump 43.9 l/min

Steering Cylinder, Double Acting - Rod Diameter 35 mm

Steering AC Cycle Times - Full Left to Full Right - 2,620 rpm 3 s

Number of Steering Wheel Turns - Full Left to Full Right or Full Right to Full Left <6 turns

Steering Articulation Angle - Each Direction 39°

Steering Cylinder, Double Acting - Bore Diameter 80 mm

Maximum Working Pressure - Steering Pump 22000 kPa

Maximum Steering Torque - 0° (Straight Machine) 57630 N·m

Maximum Steering Torque - 39° (Full Turn) 42570 N·m

Steering Cylinder, Double Acting - Stroke 300 mm

Option (1) 360/80 R20 TRI2 Nokian

Option (5) 405/70 R20 SPT9 Dunlop

Note (2) In certain applications, the loader's productive capabilities may exceed the tires' tonnes-km/h (ton-mph) capabilities.

Note (1) Other tire choices available, contact your Cat dealer for details.

Option (4) 400/70 R20 Bibload Michelin

Note (3) Caterpillar recommends that you consult a tire supplier to evaluate all conditions before selecting a tire model.

Option (3) 400/70 R20 XMCL Michelin

Option (6) 12.5-20 ATU Firestone

Option (2) 375/75 R20 XZSL Michelin

908M STANDARD EQUIPMENT

TRANSMISSION AND HYDRAULICS

18° frame oscillation, 78° articulation
Demand based cooling fan
Hydrostatic drive
Loader arm float function
Parallel lift Z-bar loader
Proportional auxiliary hydraulic circuit
Transmission, 20 km/h (12.4 mph) with heavy duty axles
Transmission inching function

ENGINE

Cat C3.3B DIT EU Stage V/U.S. EPA Tier 4 Final engine.
Cat extended life coolant
Closed circuit breather
Easy quick release fuel filter/water separator
ECO mode
Engine oil drain valve (non-spill ECO drain)
Lockable engine compartments
Two stage air cleaner with visual indicator

ELECTRICAL

Alternator 90 amp

Battery disconnect switch
Cab mounted fuse panel
Engine cold starter aid
Heavy duty battery, 12V
Service point connector for electronic diagnosis (Cat Electronic Technician™)
Reversing alarm

GENERAL

E-coat paint primer
Pressure test points
Recovery hitch and pin
Scheduled Oil Sampling S·O·SSM ports

OPERATOR ENVIRONMENT

Adjustable internal mirror
Adjustable wrist rest
Auxiliary power sockets
Coat hook
Cup holder
Digital service hour meter
Easy clean cab floor
Gauges: fuel hydraulic temperature, coolant temperature, speedometer
Multifunction joystick with direction control
On board digital display cluster
Operator station on isolation mounts
Retractable seat belt
ROPS and FOPS certified canopy/cab
Sound suppression
Sun visor
Suspended brake/accelerator pedals
Suspension seat
Two doors (enclosed cab)
Two external knock back mirrors
Warning indicators for major systems

Wiper/washer front and rear (enclosed cab)
Warnings: master, park brake, hydraulic oil pressure, engine oil pressure, coolant temp, electrical system, hydraulic filter bypass

908M OPTIONAL EQUIPMENT

TRANSMISSION AND HYDRAULICS

100% differential lock on both axles, selectable on the move

Adjustable speed control (creeper control)

Adjustable high stat response settings

Electronic throttle lock

Ride control

Rimpull control

Speeder, 35 km/h (21.7 mph) with secondary steering

ENGINE

Engine block heater 120V

Precleaner for engine air filter

ELECTRICAL

Machine Security System (MSS)

Magnetic rotating beacon

Halogen working lights, two front and two rear

LED working lights, two front and two rear

Work tool wiring harness

GENERAL

Custom color

Rear light guards

Tire options including heavy duty tires

FLUIDS

Cat extended life coolant (-50° C/-58° F)

LOADER

Adjustable implement modulation

High flow auxiliary hydraulics with pressure relieving quick disconnect manifold

Load check valves

Return To Dig tool positioner

WORK TOOLS

For all work tool options, consult your local Cat dealer

OPERATOR ENVIRONMENT

Air conditioning

Cabin light

Cat Radio/FM/DAB+/Bluetooth/Aux/Mic/Phone/USB

Comfort cab includes: cloth suspension seat, heated rear window, sliding left window and radio ready

Open canopy: fixed steering column, coat hook, sun visor (North America only)

Deluxe cab includes: Comfort cab options plus heated cloth air suspension seat with lumbar support and right sliding window

Heated rear window (enclosed cab)

Heater with window side and feet vents (enclosed cab)

Radio ready kit including speakers (enclosed cab)

Rear blind

