

PRODUCT SPECIFICATIONS FOR 930M

ENGINE

Maximum Gross Power	127 kW
Rated Net Power - 1,600 rpm - SAE J1349 at Minimum Fan Speed (Standard Power Mode: Range 1-3*)	116 kW
Maximum Net Torque - SAE J1349 (Performance Power Mode: Range 1-4)	797 N·m
Maximum Gross Power - 1,800 rpm - ISO 14396 (DIN) (Performance Power Mode: Range 1-4)	127 kW
Maximum Gross Power - 1,800 rpm - ISO 14396 (Performance Power Mode: Range 1-4)	125 kW
Displacement (Performance Power Mode: Speed Range 1-4)	7.01 l
Note (2)	*Range 4 power and torque is equal to Performance Mode with Caterpillar Power by Range technology.
Maximum Gross Torque - ISO 14396 (Performance Power Mode: Range 1-4)	815 N·m
Rated Net Power - 1,600 rpm - ISO 9249 (DIN) at Minimum Fan Speed (Standard Power Mode: Range 1-3*)	118 kW
Note (1)	Net power ratings are tested at the reference conditions for the specified standard and denote power available at the flywheel when the engine is equipped with alternator, air cleaner, emission components and fan at specified speed.
Maximum Gross Power - 1,600 rpm - ISO 14396 (Standard Power Mode: Range 1-3*)	119 kW
Engine Model	Cat C7.1 ACERT**
Displacement (Standard Power Mode: Speed Range 1-3*)	7.01 l
Maximum Net Torque - SAE J1349 (Standard Power Mode: Range 1-3*)	777 N·m
Rated Net Power - 1,800 rpm - SAE J1349 at Minimum Fan Speed (Performance Power Mode:	122 kW

Range 1-4)

Rated Net Power - 1,800 rpm - ISO 9249 (DIN) at Minimum Fan Speed (Performance Power Mode: Range 1-4)	124 kW
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Maximum Gross Torque - ISO 14396 (Standard Power Mode: Range 1-3*)	795 N·m
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Note (3)	**The Cat C7.1 ACERT engine meets Tier 4 Final/Stage V off-highway emission standards.
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Maximum Gross Power - 1,600 rpm - ISO 14396 (DIN) (Standard Power Mode: Range 1-3*)	121 kW
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Maximum Net Torque - ISO 9249:2007 (Performance Power Mode: Range 1-4)	796 N·m
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Rated Net Power - 1,800 rpm - ISO 9249 at Minimum Fan Speed (Performance Power Mode: Range 1-4)	122 kW
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Maximum Net Torque - ISO 9249:2007 (Standard Power Mode: Range 1-3*)	776 N·m
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Rated Net Power - 1,600 rpm - ISO 9249 at Minimum Fan Speed (Standard Power Mode: Range 1-3*)	116 kW
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BUCKETS

Bucket Capacities	2.1-5 m ³ (2.7-6.5 yd ³)
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Bucket Capacities - Light Material	3.1-5 m ³ (4.0-6.5 yd ³)
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Bucket Capacities - General Purpose	2.1-2.7 m ³ (2.7-3.5 yd ³)
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WEIGHTS

Operating Weight	14235 kg
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CAB

ROPS	ISO 3471:2008
FOPS	ISO 3449:2005 Level II
Note (2)	The declared dynamic operator sound pressure levels per ISO 6396:2008*, when properly installed and maintained, are: – Standard cab: 68 ±3 dB(A) – Deluxe cab: 66 ±2 dB(A)
Note (1)	Cab and Rollover Protective Structures (ROPS) are standard in North America and Europe.
Note (3)	*The measurements were conducted with the cab doors and windows closed and at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds.

STEERING

Steering Cycle Times - Full Left to Full Right - At 1,800 rpm: 90 rpm Steering Wheel Speed	2.4 s
Maximum Steering Torque - 40° (Full Turn)	37620 N·m
Maximum Flow - Steering Pump	130 l/min
Number of Steering Wheel Turns - Full Left to Full Right or Full Right to Full Left	3.5 turns
Maximum Working Pressure - Steering Pump	24130 kPa
Maximum Steering Torque - 0° (Straight Machine)	50375 N·m
Steering Articulation Angle - Each Direction	40°

SERVICE REFILL CAPACITIES

Hydraulic System - Including Tank	165 l
Hydraulic Tank	90 l
Rear Axles	25 l
Transmission - Gear Box	8.5 l
Diesel Exhaust Fluid (DEF) Tank	10 l

Diesel Exhaust Fluid (DEF) Tank	19 l
Front Axles	26 l
Note	DEF used in Cat SCR systems must meet the requirements outlined in the International Organization for Standardization (ISO) standard 22241-1.
Fuel Tank	195 l
Engine Crankcase	20 l
Cooling System	30 l

LOADER HYDRAULIC SYSTEM

Hydraulic Cycle Time - Standard Mode at 1,600 rpm - Float Down, Maximum Lift to Ground Level	2.7 s
Hydraulic Cycle Time - Standard Mode at 1,600 rpm - Raise, Ground Level to Maximum Lift	5.7 s
Note (1)	*3rd and 4th function flow is fully adjustable from 20% to 100% of maximum flow through the secondary display, when equipped.
Relief Pressure - Tilt Cylinder - 3rd and 4th Function Maximum Working Pressure	26000 kPa
Maximum Working Pressure - Implement Pump	26000 kPa
Relief Pressure - Tilt Cylinder	28000 kPa
Relief Pressure - Tilt Cylinder - 3rd and 4th Function Relief Pressure	28000 kPa
Maximum Flow - Implement Pump - 4th Function Maximum Flow*	160 l/min
Hydraulic Cycle Time - Performance Mode at 1,800 rpm - Dump, at Maximum Lift Height	1.5 s
Hydraulic Cycle Time - Performance Mode at 1,800 rpm - Raise, Ground Level to Maximum Lift	5.1 s
Hydraulic Cycle Time - Performance Mode at 1,800 rpm - Float Down, Maximum Lift to Ground Level	2.7 s
Hydraulic Cycle Time - Standard Mode at 1,600 rpm - Total Cycle Time	10.1 s

Hydraulic Cycle Time - Standard Mode at 1,600 rpm - Dump, at Maximum Lift Height	1.7 s
Hydraulic Cycle Time - Performance Mode at 1,800 rpm - Total Cycle Time	9.3 s
Maximum Flow - Implement Pump	190 l/min
Maximum Flow - Implement Pump - 3rd Function Maximum Flow*	190 l/min

SOUND

Note (1)	European Union Directive "2000/14/EC"
Operator Sound Pressure (ISO 6396:2008)	72 dB(A)
Average Exterior Sound Pressure (ISO 6395:2008)	101 dB(A)

AXLES

Rear	Oscillating ± 11 degrees; Open differential (standard); Limited slip differential (optional)
Front	Fixed; Locking differential (standard)

TRANSMISSION

Forward and Reverse - Range 1*	1-13 km/h (0.6-8 mph)
Forward and Reverse - Range 4	40 km/h
Forward and Reverse - Range 3	27 km/h
Note	*Creeper control allows maximum speed range adjustability from 1 km/h (0.6 mph) to 13 km/h (8 mph) in Range 1 through the secondary display, when equipped. Factory default is 7 km/h (4.4 mph).
Forward and Reverse - Range 2	13 km/h

TIRES

Note (3)	Caterpillar recommends that you consult a tire supplier to evaluate all conditions before selecting a tire model.
Note (1)	Other tire choices are available. Contact your Cat dealer for details.
Note (2)	In certain applications, the loader's productive capabilities may exceed the tire's tonnes-km/h (ton-mph) capabilities.
Other Choices Include	20.5 R25, radial (L-2); 20.5 R25, radial (L-5); 20.5-25 12PR (L-2); 20.5-25 12PR (L-3); 20.5-25 16PR (L-5); 600/65 R25 radial (L-3); Skidder/Agriculture; Solid Tires
Standard Size	20.5 R25, radial (L-3)

AIR CONDITIONING SYSTEM

Air Conditioning	The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.9 kg of refrigerant which has a CO2 equivalent of 2.717 metric tonnes.
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930M STANDARD EQUIPMENT

POWER TRAIN

Auto idle shut down feature

- Cat C7.1 ACERT engine
- Power modes (Standard and Performance)
- Power by range (High Power in Range 4)
- Turbocharged and aftercooled
- Filtered crankcase breather
- Diesel particulate filter
- Selective Catalyst Reduction

Coded start (requires secondary display)

Coolant protection to -34°C (-29°F)

Enclosed wet disc full hydraulic brakes

Fuel priming pump, automatic

Hydraulically driven demand cooling fan

Hydrostatic transmission with electronic control

- Operator modes (Default, TC, Hystat, and Ice)
- Directional Shift Aggressiveness (fast, medium, slow)
- Rimpull control, adjust wheel torque
- Creeper control, adjust ground speed

Parking brake, electric

Single plane cooling package wide six fins per inch density

Throttle lock and max speed limiter

HYDRAULICS

Automatic lift and bucket kickouts, adjustable in-cab

Bucket and fork modes, adjustable in-cab

Cylinder damping at kickout and mechanical end stops

Fine mode control (fast, medium, slow) in fork mode

Hydraulic response setting (fast, medium, slow)

Hydraulic diagnostic connectors and S·O·SSM ports

Load sensing hydraulics and steering

ELECTRICAL

Alternator, 115 amp, heavy duty

12V power supply in cab (2)

Batteries, 1,000 CCA (2) 24V system, disconnect switch

Back-up alarm

Emergency shutdown switch

Halogen work and roading lights, LED rear tail lights

Product Link™ PRO with three year subscription

Remote jump start post

Resettable main and critical function breakers

OPERATOR ENVIRONMENT

75 mm (3 in) retractable seat belt, with audible alarm and indicator

Automatic temperature control

External heated mirrors with lower parabolic

Hydraulic control lockout

Interior cab lighting, door and dome

Interior rearview mirrors (2)

Lunch box storage

Radio ready speakers

Rear window defrost, electric

Seat-mounted electronic implement controls, adjustable

Column mounted multi function control – lights, wipers, turn signal

Tilt and telescopic steering wheel

Tinted front glass

Wet arm wiper/washer, 2-speed and intermittent, front

OTHER STANDARD EQUIPMENT

Large-access enclosure doors with adjustable close/open force

Parallel lift loader linkage

EU STANDARD EQUIPMENT

Deluxe cab

Secondary display

Rearview camera

930M OPTIONAL EQUIPMENT

OPTIONAL EQUIPMENT

Autolube, integrated in secondary display

Auxiliary flow, third and fourth function, adjustable through secondary display

Beacon light, strobe

Cab, deluxe (standard in Europe, optional in North America)

- Electrically adjustable external heated mirrors (2)
- Secondary display to enable features and adjust parameters
- Sunscreen, front and rear

Camera, rearview (standard in Europe)

Cold start package

Counterweight, (heavy and logger)

Coupler, (Fusion and ISO 23727)

Debris packages (low, medium, high)

Fenders (extended cover and full coverage)

Guarding (machine and operator)

Linkage, high lift

