PRODUCT SPECIFICATIONS FOR 930M

US Metric **Maximum Gross Power** 168 HP Rated Net Power - 1,600 rpm - SAE 156 HP J1349 at Minimum Fan Speed (Standard Power Mode: Range 1-3*) Maximum Net Torque - SAE J1349 588 ft·lbf (Performance Power Mode: Range 1-4) Maximum Gross Power - 1,800 170 mhp rpm - ISO 14396 (DIN) (Performance Power Mode: Range 1-4) Maximum Gross Power - 1,800 168 HP rpm - ISO 14396 (Performance Power Mode: Range 1-4) Displacement (Performance 427 in³ Power Mode: Speed Range 1-4) Note (2) *Range 4 power and torque is equal to Performance Mode with Caterpillar Power by Range technology. **Maximum Gross Torque - ISO** 601 ft·lbf 14396 (Performance Power Mode: **Range 1-4)**

Rated Net Power - 1,600 rpm - ISO 9249 (DIN) at Minimum Fan Speed (Standard Power Mode: Range 158 mhp

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*)	160 HP
Engine Model	Cat C7.1**
Displacement (Standard Power Mode: Speed Range 1-3*)	427 in³
Maximum Net Torque - SAE J1349 (Standard Power Mode: Range 1-3*)	573 ft·lbf
Rated Net Power - 1,800 rpm - SAE J1349 at Minimum Fan Speed (Performance Power Mode: Range 1-4)	163 HP
Rated Net Power - 1,800 rpm - ISO 9249 (DIN) at Minimum Fan Speed (Performance Power Mode: Range 1-4)	166 mhp
Maximum Gross Torque - ISO 14396 (Standard Power Mode: Range 1-3*)	586 ft·lbf
Note (3)	**The Cat C7.1 engine meets Tier 4 Final/Stage V off-highway emission standards.

Maximum Gross Power - 1,600 rpm - ISO 14396 (DIN) (Standard Power Mode: Range 1-3*) 162 mhp

Maximum Net Torque 9249:2007 (Performand Mode: Range 1-4)		587 ft·lbf		
Rated Net Power - 1,80 9249 at Minimum Fan ((Performance Power M 1-4)	Speed	64 HP		
Maximum Net Torque 9249:2007 (Standard Po Range 1-3*)		572 ft·lbf		
Rated Net Power - 1,60 9249 at Minimum Fan ((Standard Power Mode 1-3*)	Speed	56 HP		
Bucket Capacities			2	2.1-5 m3 (2.7-6.5 yd3)
Bucket Capacities - Lig	ht Material		3	3.1-5 m³ (4.0-6.5 yd³)
Bucket Capacities - Ge	neral Purpose		2	2.1-2.7 m³ (2.7-3.5 yd³)
Operating Weight		313	382 lb	
ROPS ISC	O 3471:2008			
FOPS ISC) 3449:2005 Level I	II		
pro	e declared dynami operly installed and	d maintained, are		ure levels per ISO 6396:2008*, when

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 and at 70% of the maximum engine cooling fan speed. The so at different engine cooling fan speeds.			
Steering Cycle Tim Wheel Speed	es - Full Left to Full Right - At 1,800 rpm: 90 rpm Steering	2.4 s		
Maximum Steering	g Torque - 40° (Full Turn)	27747 ft·lbf		
Maximum Flow - S	teering Pump	34 gal/min		
Number of Steerin Left	ng Wheel Turns - Full Left to Full Right or Full Right to Full	3.5 turns		
Maximum Working	g Pressure - Steering Pump	3500 psi		
Maximum Steerinរ្	g Torque - 0° (Straight Machine)	37155 ft·lbf		
Steering Articulati	ion Angle - Each Direction	40°		
Hydraulic System - Including Tank	- 43.6 gal (US)			
Hydraulic Tank	23.8 gal (US)			
Rear Axles	6.6 gal (US)			
Transmission - Gea	ar 2.2 gal (US)			
Diesel Exhaust Flu (DEF) Tank	id 5 gal (US)			

Front Axles	6.9 gal (US)			
Note	DEF used in Cat SCR systems must meet the requirements outlined in the International Organization for Standardization (ISO) standard 22241-1.			
Fuel Tank	51.5 gal (US)			
Engine Crankcase	5.3 gal (US)			
Cooling System	7.9 gal (US)			
Hydraulic Cycle Time - Star 1,600 rpm - Float Down, Ma Ground Level		2.7 s		
Hydraulic Cycle Time - Star 1,600 rpm - Raise, Ground I 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.		
Note (1) Relief Pressure - Tilt Cylind Function Maximum Workin		20% to 100% of maximum flow through the		
Relief Pressure - Tilt Cylind	ng Pressure	20% to 100% of maximum flow through the secondary display, when equipped.		
Relief Pressure - Tilt Cylind Function Maximum Workin Maximum Working Pressu	ng Pressure re - Implement	20% to 100% of maximum flow through the secondary display, when equipped. 3771 psi		
Relief Pressure - Tilt Cylind Function Maximum Workin Maximum Working Pressu Pump	ng Pressure re - Implement ler	20% to 100% of maximum flow through the secondary display, when equipped. 3771 psi 3771 psi		

	J
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	50 gal/min
Maximum Flow - Implement Pump - 3rd Function Maximum Flow*	50 gal/min
Note (1)	European Union Directive "2000/14/EC"
Operator Sound Pressure (ISO 6396:2008)	72 dB(A)
Average Exterior Sound Pressure (ISO 6395:20	101 dB(A)

Oscillating ±11 degrees; Open differential (standard); Limited slip differential

Rear

	(οριιοπαι)
Front	Fixed; Locking differential (standard)
Forward and Reverse - Range 1*	1-13 km/h (0.6-8 mph)
Forward and Reverse - Range 4	25 mile/h
Forward and Reverse - Range 3	17 mile/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	8 mile/h
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-33)0.5-25 16PR (L-5); 600/65 R25 radial (L-3); Skidder/Agriculture; Solid Tires
Standard Size	20.5 R25, radial (L-3)
Air Conditioning	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

commes.

930M STANDARD EQUIPMENT POWER TRAIN

Axle Duo-Cone[™] seal guards Auto idle shut down feature Cat C7.1 engine

- Power modes (Standard and Performance)
- Power by range (High Power in Range 4)
- Turbocharged and aftercooled
- Diesel particulate filter (Fit for Life)

Coded start (requires secondary display)

Differential lock in front axle

Enclosed wet disc full hydraulic brakes

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

Oil sampling ports

Throttle lock and max speed limiter

HYDRAULICS

Automatic lift lower and tilt 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)

Hydraulic response setting (fast, medium, slow)

Load sensing hydraulics and steering

Seat-mounted hydraulic joystick controls

ELECTRICAL

Alternator, 115 amp, heavy duty

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) High-Vis retractable seat belt, with audible alarm and indicator

Automatic temperature control

Cab, pressurized

Camera, rearview, with dedicated display

External heated mirrors with lower parabolic

Ground level cab door release

Hydraulic control lockout

Mirror, single

Lunch box storage

Radio ready speakers

Rear window defrost, electric

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, lights, wipers, turn signal

Suspension seat, fabric

OTHER STANDARD EQUIPMENT

Large-access enclosure doors with adjustable close/open force Cat optimized Z-bar linkage with parallel lift Recovery hitch, with pin Remote mounted lubrication points Lockable compartments and enclosures

930M OPTIONAL EQUIPMENT OPTIONAL EQUIPMENT

Autolube, integrated in secondary display Auxiliary flow, third and fourth function Differential, limited slip, rear Beacon light, strobe

Cab, deluxe (standard in Europe)

- Camera, rearview integrated into advanced display
- Electrically adjustable external heated mirrors (2)
- Secondary display to enable features and adjust parameters
- LED interior lighting
- Sunscreen, front and rear
- Touchscreen secondary display
- Ride control adjustable speed activation
- Preventative maintenance reminders
- Integrated help function (26 languages)

Camera, roof mounted, front view with separate display

Cold start package

- Ether starting aid, block heater and additional batteries, 1,000 CCA (4 total)

Counterweight, additional options

Coupler (Fusion and ISO 23727)

Debris packages (low, medium, high)

Fenders (extended cover and full coverage)

Guarding packages

Linkage, high lift

Lights, auxiliary, halogen or LED with engine and DEF compartment lights

Payload Technology

- Cat Production Measurement (CPM)
- CPM Printer

Product Link ELITE with capabilities for software push, data logging, histogram and trend mapping Radio packages

Rear Object Detection

Ride Control System, adjustable through secondary display

Seats

- Deluxe seat fully adjustable fabric air suspension seat with mid seat backrest
- Premium seat fully adjustable leather and fabric air suspension with high backrest and air lumbar support. Seat is heated and ventilated on bottom cushion and backrest.

Steering

- Dual mode and secondary

Tire Pressure Monitoring (TPM)