



Cat[®] 930M

AG HANDLER

MAKING YOUR CHOICE EASY:

- Enjoy All Day Comfort** – Have a seat in the new 930M Ag Handler and enjoy automatic temperature control, class leading sound levels, excellent all around visibility and low-effort joystick controls that move with you on a fully adjustable seat suspension. A large spacious operator environment combined with Caterpillar's exclusive hydraulic cylinder damping and smooth predictable controls make this the most comfortable seat on the farm.
- Work Made Easy** – Move more with Caterpillar's patented quick loading Performance Series buckets and High Lift optimized Z-bar linkage that combines the digging efficiency of a traditional Z-bar with tool carrier capabilities. The parallel lift and high tilt forces throughout the working range allow you to safely and confidently handle loads from bales to silage with precise control. Multi-function work has never been easier with dedicated pumps for each system and a flow sharing implement valve governed by an intelligent power management system. Simultaneously lift, steer and drive without compromise. A 20% boost in hydraulic speeds on the Ag Handler helps you finish the day on time.
- Efficiently Powerful** – Experience hybrid-like fuel efficiency with an intelligent hydrostatic power train and industry leading fuel savings through a lower maximum engine speed of just 1,600 rpm in Standard Mode. Power when you need it with Caterpillar's exclusive Power-by-Range technology that increases power in Range 4 for improved speed on grade. For your toughest and most demanding farm applications a new Performance Mode will allow you to boost the power and hydraulic speed in all Ranges to get the job done even quicker. Meets U.S. EPA Tier 4 Final emission standards with a Cat[®] C7.1 ACERT[™] engine that is designed to manage itself so you can concentrate on your work.
- Customize Your Experience** – Fine tune machine performance with adjustments at your fingertips through the soft touch buttons and optional secondary touch screen display. Quickly set auxiliary flow to optimize grapple or silage defacer speed, enable auto reversing fan to breathe clean in dusty environments, toggle over to fine mode for improved control when bale stacking, program linkage kick-out positions for easy feed wagon loading, adjust wheel torque to match underfoot conditions when cleaning corrals and customize ride control activation speed for a smooth loaded carry run. The 930M Ag Handler is ready for the challenge on your farm!

Specifications

Engine

Engine Model	Cat C7.1 ACERT			
	Standard Mode		Performance Mode	
Power Mode	Standard Mode		Performance Mode	
Speed Range	Range 1-3*		Range 1-4	
Maximum Gross Power				
Maximum Engine Speed	1,600 rpm		1,800 rpm	
ISO 14396	119 kW	160 hp	122 kW	164 hp
ISO 14396 (DIN)	119 kW	162 hp	122 kW	166 hp
Rated Net Power	1,600 rpm		1,800 rpm	
SAE J1349	115 kW	154 hp	117 kW	157 hp
SAE J1349 at				
Maximum Fan Speed	105 kW	141 hp	107 kW	143 hp
ISO 9249 (DIN)	116 kW	158 hp	119 kW	162 hp

Engine (continued)

	Standard Mode		Performance Mode	
	Maximum Gross Torque	804 N-m	592 lbf-ft	804 N-m
ISO 14396				
Maximum Net Torque	768 N-m	566 lbf-ft	768 N-m	566 lbf-ft
SAE J1349				
ISO 9249 (1977)/EEC 80/1269	776 N-m	572 lbf-ft	776 N-m	572 lbf-ft
Displacement	7.01 L	427 in ³	7.01 L	427 in ³

- Engine meets Tier 4 Final emission standards.
- Net power shown is the power available at the flywheel when the engine is equipped with alternator, air cleaner and diesel exhaust filter.
- **Spark arrester performance as standard** – Meets the performance requirements of EN 1834-1:2000 (section 6.4.2 Visual Test) and U.S. Forestry Service SAE J350.

*Range 4 power is boosted to be the same as Performance Mode.



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Buckets

Bucket Capacities – Light Material	3.1-5.0 m ³	4.0-6.5 yd ³
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Steering

Steering Articulation Angle (each direction)	40°	
Maximum Flow – Steering Pump	130 L/min	34 gal/min
Maximum Working Pressure – Steering Pump	24 130 kPa	3,500 psi
Maximum Steering Torque:		
0 degrees (straight machine)	50 375 N·m	37,155 lbf·ft
40 degrees (full turn)	37 620 N·m	27,747 lbf·ft
Steering Cycle Times (full left to full right):		
At 1,800 rpm: 90 rpm steering wheel speed	2.4 seconds	
Number of Steering Wheel Turns – full left to full right or full right to full left	3.5 turns	

Loader Hydraulic System

Maximum Flow – Implement Pump	190 L/min	50 gal/min
3rd Function Maximum Flow*	190 L/min	50 gal/min
4th Function Maximum Flow*	160 L/min	42 gal/min
Maximum Working Pressure – Implement Pump	28 000 kPa	4,061 psi
Relief Pressure – Tilt Cylinder	30 000 kPa	4,351 psi
3rd Function Maximum Working Pressure	28 000 kPa	4,061 psi
4th Function Maximum Working Pressure	28 000 kPa	4,061 psi
Hydraulic Cycle Times:	Standard Mode	Performance Mode
	At 1,600 rpm	At 1,800 rpm
Raise (ground level to maximum lift)	4.8 seconds	4.3 seconds
Dump (at maximum lift height)	1.6 seconds	1.4 seconds
Float Down (maximum lift to ground level)	1.8 seconds	1.8 seconds
Total Cycle Time	8.2 seconds	7.5 seconds

*Adjustable from 20% to 100% of maximum flow through the secondary display, when equipped.

Service Refill Capacities

Fuel Tank	195 L	51.5 gal
Cooling System	30 L	7.9 gal
Engine Crankcase	20 L	5.3 gal
Transmission (gearbox)	8.5 L	2.2 gal
Axles:		
Front	26 L	6.9 gal
Rear	25 L	6.6 gal
Hydraulic System (including tank)	165 L	43.6 gal
Hydraulic Tank	90 L	23.8 gal
Diesel Exhaust Fluid (DEF) Tank	19 L	5 gal

- DEF used in Cat SCR systems must meet the requirements outlined in the International Organization for Standardization (ISO) standard 22241-1.

Transmission

Forward and Reverse:		
Range 1*	1-13 km/h	0.6-8 mph
Range 2	13 km/h	8 mph
Range 3	27 km/h	17 mph
Range 4	40 km/h	25 mph

*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).

Tires

Standard Size	20.5 R25, radial (L-3)
Other Choices Include:	20.5 R25, radial (L-2)
	20.5-25 12PR (L-2)
	20.5-25 12PR (L-3)

- Other tire choices are available. Contact your Cat dealer for details.
- In certain applications, the loader's productive capabilities may exceed the tire's tonnes-km/h (ton-mph) capabilities.
- Caterpillar recommends that you consult a tire supplier to evaluate all conditions before selecting a tire model.

Cab

ROPS	ISO 3471:2008
FOPS	ISO 3449:2005 Level II

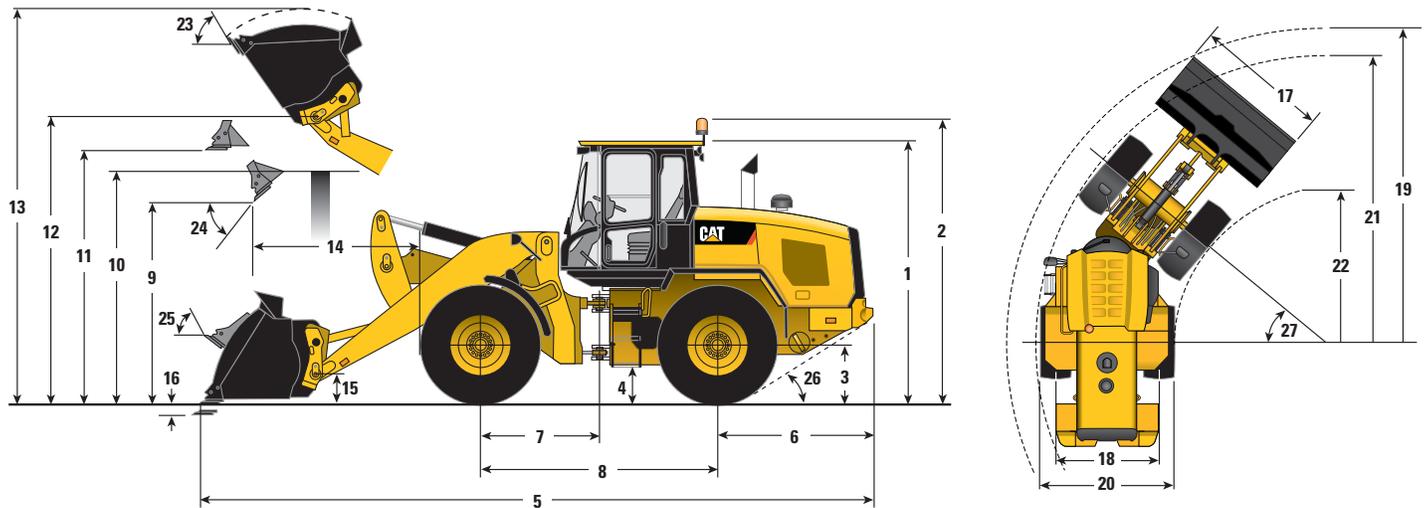
- The declared dynamic operator sound pressure levels per ISO 6396:2008*, when properly installed and maintained, are:
 - Standard cab: 68 ±3 dB(A)
 - Deluxe cab: 66 ±2 dB(A)

*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.

Axles

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

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



Bucket Size	3.1 m ³ (4.1 yd ³)		3.5 m ³ (4.6 yd ³)	
** 1 Height: Ground to Cab	3340 mm	10'11"	3340 mm	10'11"
** 2 Height: Ground to Beacon	3707 mm	12'1"	3707 mm	12'1"
** 3 Height: Ground Axle Center	685 mm	2'2"	685 mm	2'2"
** 4 Height: Ground Clearance	397 mm	1'3"	397 mm	1'3"
* 5 Length: Overall	8323 mm	27'3"	8425 mm	27'7"
6 Length: Rear Axle to Bumper	1993 mm	6'6"	1993 mm	6'6"
7 Length: Hitch to Front Axle	1500 mm	4'11"	1500 mm	4'11"
8 Length: Wheel Base	3000 mm	9'10"	3000 mm	9'10"
* 9 Clearance: Bucket at 45 degrees	3177 mm	10'5"	3107 mm	10'2"
** 10 Clearance: Loadover Height	3550 mm	11'7"	3550 mm	11'7"
** 11 Clearance: Level Bucket	4073 mm	13'4"	4073 mm	13'4"
** 12 Height: Bucket Pin	4400 mm	14'5"	4400 mm	14'5"
** 13 Height: Overall	5697 mm	18'8"	5802 mm	19'0"
* 14 Reach: Bucket at 45 degrees	1350 mm	4'5"	1424 mm	4'8"
15 Carry Height: Bucket Pin	613 mm	2'0"	613 mm	2'0"
** 16 Dig Depth	135 mm	5.3"	135 mm	5.3"
17 Width: Bucket	2750 mm	9'0"	2750 mm	9'0"
18 Width: Tread Center	1930 mm	6'3"	1930 mm	6'3"
19 Turning Radius: Over Bucket	6392 mm	20'11"	6427 mm	21'11"
20 Width: Over Tires	2540 mm	8'4"	2540 mm	8'4"
21 Turning Radius: Outside of Tires	5402 mm	17'8"	5402 mm	17'8"
22 Turning Radius: Inside of Tires	2851 mm	9'4"	2851 mm	9'4"
23 Rack Angle at Full Lift	51 degrees		51 degrees	
24 Dump Angle at Full Lift	44 degrees		44 degrees	
25 Rack Angle at Carry	48 degrees		48 degrees	
26 Departure Angle	33 degrees		33 degrees	
27 Articulation Angle	40 degrees		40 degrees	
* Tipping Load – Straight (ISO 14397-1)	7453 kg	16,430 lb	7290 kg	16,070 lb
* Tipping Load – Full Turn (ISO 14397-1)	6320 kg	13,934 lb	6166 kg	13,592 lb
* Breakout	8532 kg	18,808 lb	7823 kg	17,246 lb
* Operating Weight	14 459 kg	31,876 lb	14 577 kg	32,136 lb

*Vary with bucket.

**Vary with tire.

Dimensions listed are for a 930M Ag Handler High Lift configured with Fusion™ light material bucket, bolt-on cutting edge, logger/aggregate counterweights, additional guarding, 80 kg (176 lb) operator and Michelin 20.5 R25 (L-3) XHA2 tires.

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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
- Locking differential front axle – on the go engagement with “Always ON” feature
- 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-S™ 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
- Debris package (reversing fan)
- Emergency shutdown switch
- Halogen work and roading lights, LED rear tail lights
- Product Link™ PRO
- 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

- High Lift linkage
- Large-access enclosure doors with adjustable close/open force
- Parallel Lift loader linkage

OPTIONAL EQUIPMENT

- Auto lube, integrated in secondary display
- Auxiliary flow, third and fourth function, adjustable through secondary display
- Auxiliary tool box
- Beacon light, strobe
- Cab, deluxe
 - Electrically adjustable external heated mirrors (2)
 - Secondary touch screen display to enable features and adjust parameters
 - Sunscreen, front and rear
 - Windshield washing access steps
- Camera, rearview
- Cat Production Measurement weigh scale system integrated into secondary display
- Cold start package
- Coupler, (Fusion and ISO 23727)
- Fenders (extended cover and full coverage)
- Guarding (machine and operator)
- Guarding (power train and light)
- Lights, auxiliary, halogen or LED with engine compartment lights
- Limited slip rear axle
- Object Detection
- Product Link ELITE with capabilities for software push, data logging, histogram and trend mapping
- Radio packages
- Ride Control System, adjustable through secondary display
- Seats
 - Deluxe seat – fully adjustable fabric air suspension seat with mid backrest and mechanical lumbar support
 - 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) integrated into secondary display

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