# 930/938 Ag Handlers

## AGRICULTURAL ARRANGEMENT


| | 930 Ag Handler | 938 Ag Handler |
|---|---|---|
| **Engine Model** | Cat® C7.1* | Cat C7.1* |
| **Rated Engine Power:** | | |
| ISO 14396 | 125 kW (168 hp) | 140 kW (188 hp) |
| ISO 14396 (Metric) | 170 hp | 190 hp |
| **Bucket Capacity** | 3.1-5.0 $m^3$ (4.1-6.5 $yd^3$) | 3.5-5.0 $m^3$ 4.6-6.5 $yd^3$ |
| **Full Turn Tip Load:** | | |
| Standard Lift | 8076 kg (17,806 lb) | 10 263 kg (22,627 lb) |
| High Lift | 6287 kg (13,861 lb) | 7735 kg (17,052 lb) |
| **Operating Weight** | 14 526 kg (32,024 lb) | 17 432 kg (38,431 lb) |

*Engine meets U.S. EPA Tier 4 Final, EU Stage V emission standards.

# CAT®
# 930/938
## MAKING YOUR CHOICE EASY

## EFFICIENTLY POWERFUL

Experience the difference with an intelligent hydrostatic powertrain and fuel savings through a lower maximum engine speed working in combination with **auto engine speed** mode. This provides efficiency as standard with a boost in power when you need it. Optimize traction and minimize wheel slip with **auto wheel torque** and **auto differential lock** system (938 only) tuned to provide peak performance while maximizing tire life and keeping operating costs low. Track your production and accurately hit your load targets with Cat Payload. **250 hours of Cat Payload demonstration** will be included as standard with an optional subscription for extended use.

## ENJOY ALL DAY COMFORT

Have a seat in the Next Generation Cat Small Wheel Loader and enjoy enhanced 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 hydraulic cylinder damping and smooth predictable controls make this the most comfortable seat on your jobsite. An upgrade to **multi-view camera** and rear object detection gives you an extra eye on the jobsite while the optional **force-feedback joystick steering** keeps you feeling confident on those long shifts. The **operator not present** function helps to isolate the machine if you leave the environment; while seat belt notifications give you a gentle reminder to buckle up.

## WORK MADE EASY

Move more with the Caterpillar patented quick loading performance series buckets and optimized Z-bar linkage. The parallel lift and high tilt forces throughout the working range allow you to confidently handle loads 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. Upgrade to **autolube** and **tire pressure monitoring** to make service easy and get to work quicker. Light the way with auto lights that come on at nightfall. **Extended service intervals at 1,000 hours** to reduce fluid and filter use by up to 45% (compared to previous M Series models) while keeping operating cost low.

## CUSTOMIZE YOUR EXPERIENCE

Meet your application requirements and individual preferences with Cat **Hystat™ operator modes** featuring four unique powertrain settings. Select classic torque converter mode for smooth rollout, conventional hystat mode for aggressive engine braking, an ice mode that maximizes your control on slippery underfoot, and **single pedal mode** for simplified use. Fine tune machine performance with adjustments at your fingertips through **programmable joysticks**, soft touch buttons, and a **jog dial** that works in combination with a standard **touch screen display**. Quickly recall attachment profiles that maintain key settings for versatility on the jobsite and optimal efficiency.

# PURPOSE BUILT CONFIGURATION

## MAXIMIZE PERFORMANCE AND PRODUCTIVTY WHILE MINIMIZING OPERATING COSTS


### WIDE TIRES

Enhance your stability with optional 750/65 MEGAXBIB flotation tires for rolling the silage clamp and working side walls. A high mounted fender and added tire clearance keeps your windows clean and you working.

### BOOST YOUR PRODUCTION

The Next Generation 930 Ag Handler has 13% faster cycle times than the previous model giving you the speed and responsiveness to move material fast and get the job done.  Increased hydraulic pressure gives you the flexibility to power a wide range of hydro-mechanical tools.

The Next Generation 938 Ag Handler features an 8% increase in tipping capacity compared to the previous model allowing you to move faster and feel more stable when using high-capacity buckets.

### BREATHE CLEAN

Maximize engine life and extend filter cleaning intervals with a turbine ejector pre-cleaner. Keep cool with a reversing fan to purge the single plane, widely spaced core cooling package.

# EFFICIENTLY POWERFUL

## EXPERIENCE THE FUTURE OF EFFICIENCY

### AUTOMATIC ENGINE SPEED CONTROL

+ Reduce fuel burn with a power on demand logic that monitors operator inputs and automatic boosted engine speed to meet operator demands. When full speed and power is not needed to meet the operator's commands, the machine will automatically reduce engine speed to save fuel.
+ Automatic idle logic will put the machine into a hibernate speed when not working and jump to life when work is being requested.

### AUTOMATIC POWER ON DEMAND

+ Technology made easy with automatic features designed to minimize fuel burn and maximize tire life come standard.

### AUTOMATIC WHEEL TORQUE CONTROL

+ Maximize tire life with an automatic wheel torque control design to optimize pushing power without spinning tires for peak. performance and lower operating costs.

## GET POWER TO THE GROUND

+ **Fully locking front differential axle** that can be engaged on the move at full torque.
+ **Automatic locking front differential** axle on 938 only.
+ **Limited slip differential** option on rear axle maximizes traction to keep you climbing.
+ Independent service brakes on front and rear axles provide robust stopping performance while a push button electronic park brake allows you to safely secure the machine with ease.

## SIX CYLINDERS OF EFFICIENT POWER

The Cat C7.1 engine provides cleaner, quieter operation while delivering superior performance and durability through a high torque, low speed design, with a clean emissions module that is designed to manage itself so you can concentrate on your work.

+ **No downtime for regeneration** with a passive low temperature system that keeps you on the job.
+ **Fit for Life Diesel Particulate Filter (DPF)** that is designed to exceed the engine overhaul life.
+ **Extended fluid fill intervals** with minimal use of Diesel Exhaust Fluid (DEF) also referred to as AdBlue™ with an average of four fuel tank fills per DEF fill.
+ **Configurable auto idle shut down** based on time and ambient temperature to further reduce fuel burn.

## CAT PAYLOAD

Cat Payload allows operator to accurately track payload while loading, and track productivity.

+ **250 hours of demo** are standard allowing operator to try before they buy.
+ A lifetime subscription is available.
+ Print your payload in real time with optional on-board printer.

## SMOOTH AND PREDICTABLE MULTI-FUNCTION

Load-sensing, variable flow system senses work demand and adjusts flow and pressure to match the operator's request.

+ **Programmable in-cab kick-outs** are easy to set on the go for tilt, lower and lift. This feature is ideal for applications where the work cycle is repeatable, allowing you to quickly return to programmed set points.
+ **Fine tune hydro-mechanical performance** with fully adjustable 3rd and 4th function flow.
+ **Multi-Function without compromise** through dedicated hydraulic systems featuring one pump for the Intelligent Hydrostatic drive, a second pump for the implements, and a third pump for the steering system. Drive, lift and steer simultaneously with smooth predictable control.

# ENJOY ALL DAY COMFORT

## BEST SEAT ON THE FARM

### HAVE A SEAT AND EXPERIENCE:

+ **Joystick steering** option with force feedback allowing control at full roading speeds.
+ **Seat-mounted controls** featuring a low effort joystick for lift and tilt functions, along with integrated Forward/Neutral/Reverse (FNR) switch and programmable buttons, optional third and fourth auxiliary functions along with jog dial for real time adjustments.
+ **Operator Not Present** logic that will help isolate the machine if the operator leaves the seat.
+ **All around visibility** with single piece front windshield, enhanced side views, increased wiper coverage and parabolic external mirrors.
+ **Automatic climate control** with push button defrost of heated rear glass and external mirrors.
+ **Fully adjustable controls** denoted with yellow accents including steering column, joystick and seat suspension.
+ **Information at a glance** with standard 203 mm (8 in) full color touch screen display.
+ **An extra eye on the job site** with standard rearview camera, optional multi-view camera system, optional* forward facing camera system and optional integrated rear object detection.
+ **A heated and cooled seat** option for added comfort in a wide range of climates.
+ **New seat fabric** and latest generation seat cushions provide all day comfort.
+ **Seatbelt beacon** option provides added safety as it lights up when seatbelt is connected to buckle.

**Forward facing camera system may be required for local EU requirements. Consult your local Cat Dealer for additional information.*

## ENJOY COMING TO WORK WITH:

+ **A spacious, safe, quiet operator environment** featuring ergonomic controls, seatbelt notification and optional Bluetooth® radio with integrated microphone plus multiple USB charging ports and auxiliary (AUX) audio connectors.
+ **Easy access to vital machine parameters** with touch screen display that works in conjunction with the standard soft touch panel to allow real time adjustments to machine features in over 25 languages.
+ **Comfortable soft stops at the end of cylinder end stroke** with cylinder snubbing and preprogrammed kick-out points due to Caterpillar advanced electro hydraulics.
+ **An even smoother ride** with optional ride control when working unloaded and loaded with excellent material retention.
+ **Early starts and late finishes** are made easier with automatic lights that come on when it gets dark. Optional LED lighting package that includes engine and DEF compartment lighting to illuminate the way for checking oil and coolant level, along with re-fueling the machine in dark conditions.
+ **On board operator coaching** via machine help QR code on the touchscreen display.



# WORK MADE EASY

## GETTING THE JOB DONE

### OPTIMIZED Z-BAR LINKAGE

The Caterpillar patented optimized Z-bar linkage combines the digging efficiency of a traditional Z-bar with integrated tool carrier capabilities for great performance and versatility.

### PERFECT PARALLELISM

Perfect parallelism functionality available in fork mode gives truly predictable performance while high tilt forces throughout the working range help you safely and confidently handle loads with precise control.

### VISIBILITY

Visibility has been maximized with the introduction of Gen III lift arms which bring a cast torque tube resulting in class leading front visibility when combined with the new cast couplers.*

### HIGHER LIFT

Lift higher and reach further with optional high lift linkage. The 938 offers even greater lift height when configured with optional 23.5 tires.

### ENHANCED COUPLER OPTIONS

ISO or Fusion™ cast couplers offer additional visibility when compared with previous plate style couplers.

**New lift arms only available on standard lift 930 and 938.*

## FLEXIBLE POWERTRAIN

A smooth, electronically controlled hydrostatic transmission provides adjustable power to the ground with excellent ground speed control and customizable feel.

**Select your Powertrain Mode:**

+ **Torque converter (TC)** for smooth rollout.
+ **Hystat** for aggressive hydraulic braking.
+ **Single pedal** that allows right foot operation for ground speed control with a locked throttle for quick steering and implement control.
+ **Ice** to maximize control on snow and ice, regardless of tire type.

**Fine-tune ground speed** when using hydro-mechanical work tools such as brooms with creep control adjusted with a jog dial.

+ **Set directional shift response,** soft and smooth for material handling applications or sharp for aggressive operation.

# CUSTOMIZE YOUR EXPERIENCE

## MAKE IT YOURS

### ADJUSTABLE ELECTRO-HYDRAULIC CONTROLS

Easily customize hydraulic performance to meet your needs.

+ **Optimize hydraulic modulation** with fine mode control when working with forks, material handling arms, and large tools.
+ **Quicker hydraulic response** for fine grading at speed and agriculture applications through lift and tilt response settings.
+ **Fully adjustable ride control** activation speed along with third and fourth function auxiliary flows.

**Operator Profiles and Coded Start**

+ Next generation small wheel loaders will remember you and your personal settings including programmable buttons with unique operator codes to make this machine truly yours and keep it secure.

# SERVICE
## MAXIMIZE YOUR UP TIME

Get up and running quickly with ground level, daily service access and optional engine compartment lighting. Three large service doors can be opened and closed in any order to give full access to filters and service points.

+ **1,000 hour service interval** after initial break-in period. Ground level service access to daily checks.
+ **Extended cleanouts** with single plane cooling system and wide spaced 6 fins per inch coolers.
+ **Maintenance reminders** through primary touch screen display at scheduled intervals.
+ **Full flow return filter** designed to keep hydraulic oil clean across multiple systems.
+ **Product Link™ PRO standard** with optional subscription to VisionLink®.
+ **Integrated autolube** (optional) with adjustable greasing frequency.


# CUSTOMER SUPPORT
## UNMATCHED SERVICE MAKES THE DIFFERENCE

### RENOWNED CAT DEALER SUPPORT

**Rely on your Cat dealer** to help you every step of the way with new or used machine sales, rental or rebuild options to meet your business needs.

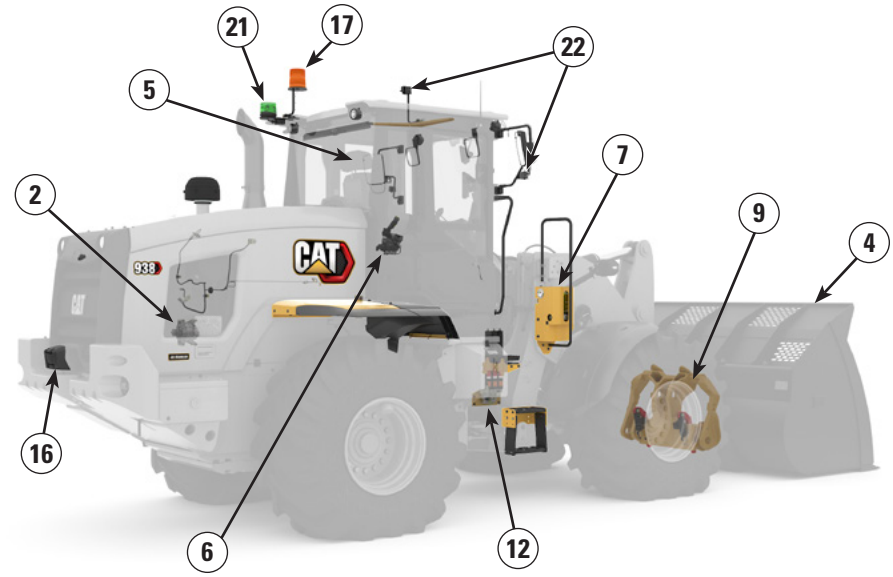
**Maximize your machine** uptime with unsurpassed worldwide parts availability, trained technicians and customer support agreements.

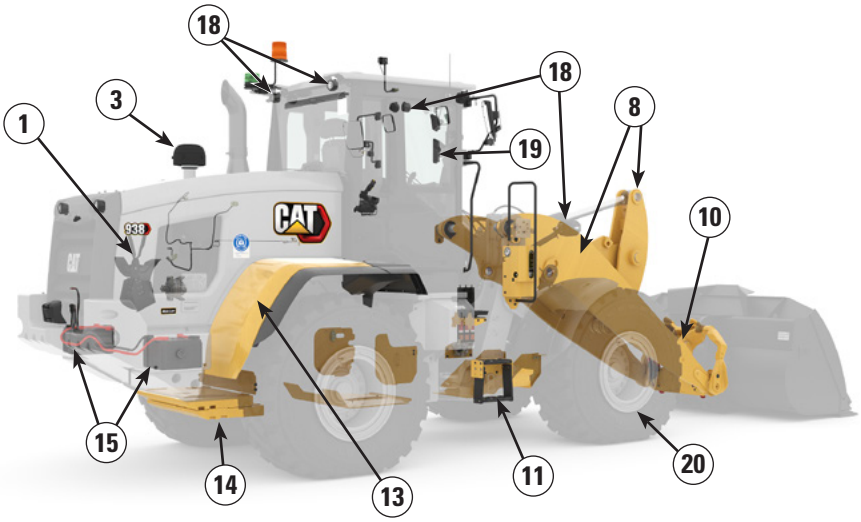
**Let us earn your business.** Experience the next generation small wheel loader.

# CONFIGURED FOR SUCCESS

## READY TO WORK

A complete range of optional equipment and work tools give you the versatility to configure a Cat small wheel loader to be successful in your business. Get with your Cat dealer to configure yours.




**Debris Packages:**

1) *Reversing fan*
2) *Sealed alternator*
3) *Turbine pre-cleaner*

**Work Tools:**

4) *Full range of attachments*

**Operator Environment:**

5) *Seat, deluxe or premium*
6) *Joystick Steer*

**Other Options:**

7) *Autolube*
8) *High lift linkage*
9) *Coupler: Fusion and ISO 23727*
10) *Auxiliary hydraulics: 3rd and 4th*
11) *Window washing access*
12) *Ride control*
13) *Fenders: extended and full coverage*
14) *Counterweights*
15) *Cold start package*
16) *Rear object detection*
17) *Beacon*
18) *LED auxiliary lights*
19) *Cat Payload*
20) *TPM – Tire Pressure Monitoring*
21) *Seatbelt Beacon*
22) *Multi-view camera*

## Engine

| | 930 Cat C7.1** | | | | 938 Cat C7.1** | | | |
|---|---|---|---|---|---|---|---|---|
| | Power Range 1-4 | | Standard Range 1-3* | | Power Range 1-4 | | Standard Range 1-3* | |
| | kW | hp | kW | hp | kW | hp | kW | hp |
| Rated Gross Power | | | | | | | | |
| Engine Speed | 1,800 rpm | | 1,600 rpm | | 1,800 rpm | | 1,600 rpm | |
| SAE J1995 | 127 | 170 | 121 | 162 | 143 | 192 | 132 | 177 |
| SAE J1995 (DIN) | 173 mhp (PS) | | 165 mhp (PS) | | 194 mhp (PS) | | 179 mhp (PS) | |
| Rated Engine Power | | | | | | | | |
| ISO 14396 | 125 | 168 | 119 | 160 | 140 | 188 | 129 | 173 |
| ISO 14396 (DIN) | 170 mhp (PS) | | 162 mhp (PS) | | 190 mhp (PS) | | 175 mhp (PS) | |
| Rated Net Power | | | | | | | | |
| SAE J1349 at Minimum Fan Speed | 123 | 165 | 118 | 158 | 138 | 185 | 128 | 172 |
| ISO 9249 at Minimum Fan Speed | 123 | 165 | 118 | 158 | 138 | 185 | 128 | 172 |
| ISO 9249 (metric) at Minimum Fan Speed | 167 mhp (PS) | | 160 mhp (PS) | | 188 mhp (PS) | | 174 mhp (PS) | |

| | N·m | lbf·ft | N·m | lbf·ft | N·m | lbf·ft | N·m | lbf·ft |
|---|---|---|---|---|---|---|---|---|
| Maximum Gross Torque | | | | | | | | |
| Engine Speed | 1,400 rpm | | | | 1,400 rpm | | | |
| SAE J1995 | 824 | 608 | 804 | 593 | 912 | 673 | 882 | 651 |
| ISO 14396 | 815 | 601 | 795 | 586 | 900 | 664 | 870 | 642 |
| Maximum Net Torque | | | | | | | | |
| SAE J1349 | 804 | 593 | 785 | 579 | 889 | 656 | 859 | 634 |
| ISO 9249 | 807 | 595 | 787 | 580 | 892 | 658 | 862 | 636 |
| Displacement | 7.01 L | | 427 in³ | | 7.01 L | | 427 in³ | |
| Bore | 105 mm | | 4.1 in | | 105 mm | | 4.1 in | |
| Stroke | 135 mm | | 5.3 in | | 135 mm | | 5.3 in | |

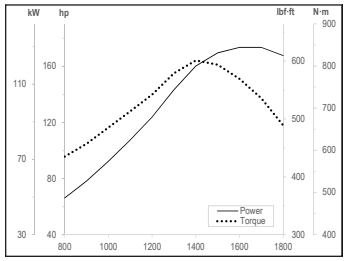
*Range 4 power and torque is equal to Power Mode with Caterpillar Power by Range technology.

**Meets U.S EPA Tier 4 Final, EU Stage V off-highway emission standards.

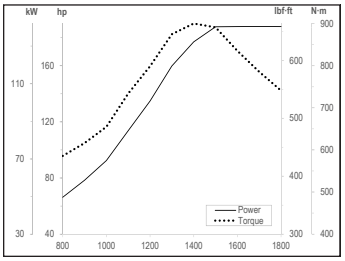
- Net power ratings are tested at the reference conditions for the specified standard and denote power available at the flywheel when the engine is equipped with alternator, air cleaner, emission components and fan at specified speed.
- No derating required up to 3000 m (10,000 ft) altitude. Auto derate protects hydraulic and transmission systems.

## Engine Torque

**930**




**938**




## Cab

- Rollover Protective Structure (ROPS): ISO 3471: 2008, Falling Object Protective Structure (FOPS): ISO 3449: 2005 LEVEL II
- Declared Sound Levels
  - Operator Sound Pressure Level (ISO 6396:2008): 68 dB(A)*
  - Exterior Sound Power Level (ISO 6395:2008): 101 dB(A)*
- 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 $CO_2$ equivalent of 2.717 metric tonnes.

* Measurements were conducted with cab doors and windows closed and at 70% of maximum engine cooling fan speed. Sound level may vary at different engine cooling fan speeds.

- The Blue Angel environmental label is an optional attachment.

# 930/938 Ag Handler Specifications

## Loader Hydraulic System

- Implement system uses a dedicated load sensing variable displacement pump with dual double acting lift cylinders and a single double acting tilt cylinder.
- Flow values listed are for a machine running in Performance Power Mode (1,800 rpm).

*3rd and 4th function flow is fully adjustable from 20% to 100% of maximum flow through the secondary display when equipped.

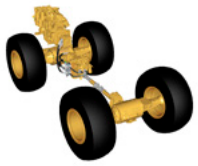
| | 930 | | 938 | |
|---|---|---|---|---|
| Maximum Flow – Implement Pump | 190 L/min | 50 gal/min | 190 L/min | 50 gal/min |
| 3rd Function Maximum Flow* | 190 L/min | 50 gal/min | 190 L/min | 50 gal/min |
| 4th Function Maximum Flow* | 160 L/min | 42 gal/min | 160 L/min | 42 gal/min |
| Maximum Working Pressure – Implement Pump | 28 000 kPa | 4,061 psi | 28 000 kPa | 4,061 psi |
| Relief Pressure – Tilt Cylinder | 30 000 kPa | 4,351 psi | 30 000 kPa | 4,351 psi |
| 3rd and 4th Function Maximum Working Pressure | 28 000 kPa | 4,061 psi | 28 000 kPa | 4,061 psi |
| 3rd and 4th Function Relief Pressure | 30 000 kPa | 4,351 psi | 30 000 kPa | 4,351 psi |
| Lift Cylinder – Standard Lift Linkage: | | | | |
| Bore Diameter | 110 mm | 4.3 in | 120 mm | 4.7 in |
| Rod Diameter | 60 mm | 2.4 in | 65 mm | 2.6 in |
| Stroke | 728 mm | 28.7 in | 789 mm | 31.1 in |
| Tilt Cylinder – Standard Lift Linkage: | | | | |
| Bore Diameter | 130 mm | 5.1 in | 150 mm | 5.9 in |
| Rod Diameter | 70 mm | 2.8 in | 90 mm | 3.5 in |
| Stroke | 555 mm | 21.9 in | 555 mm | 21.9 in |
| Cycle Times: Performance (HP+) at 1,800 rpm/ Standard Power Mode at 1,600 rpm | | | | |
| Raise (Ground Level to Maximum Lift) | 4.3/4.9 seconds | | 5.5/6.2 seconds | |
| Dump (at Maximum Lift Height) | 1.2/1.4 seconds | | 1.5/1.7 seconds | |
| Float Down (Maximum Lift to Ground Level) | 2.6/2.6 seconds | | 2.7/2.7 seconds | |
| Total Cycle Time | 8.1/8.9 seconds | | 9.7/10.6 seconds | |

## Steering

- Steering system uses a dedicated load sensing variable displacement pump with dual double acting cylinders.
- Flow values listed are for a machine running in Performance Power Mode (1,800 rpm).

| | 930 | | 938 | |
|---|---|---|---|---|
| Steering Cylinder | | | | |
| Bore Diameter | 70 mm | 2.8 in | 80 mm | 3.1 in |
| Rod Diameter | 40 mm | 1.6 in | 50 mm | 2.0 in |
| Stroke | 438 mm | 17.2 in | 399 mm | 15.7 in |
| Maximum Flow – Steering Pump | 130 L/min | 34 gal/min | 130 L/min | 34 gal/min |
| Maximum Working Pressure – Steering Pump | 24 130 kPa | 3,500 psi | 24 130 kPa | 3,500 psi |
| Steering Cycle Times (Full Left to Full Right) | | | | |
| Minimum RPM: Pump Flow Limited | 2.8 seconds | | 3.1 seconds | |
| Maximum RPM: 90 rpm Steering Wheel Speed | 2.4 seconds | | 2.3 seconds | |
| Number of Steering Wheel Turns | | | | |
| Full Left to Full Right or Full Right to Full Left | 3.5 | | 3.5 | |

## Powertrain



- Powertrain is governed by the Caterpillar exclusive Intelligent Power Management system to deliver peak performance and efficiency.

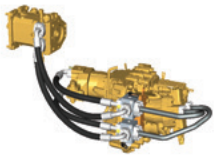
* Differential front locking axle can be engaged on the go at full torque to 10 km/h (6.2 mph) on the 930 and up to 20 km/h (12.4 mph) on the 938.

| | 930 | 938 |
|---|---|---|
| Front Axle | Fixed | Fixed |
| Traction Aid* | Locking Differential | Locking Differential |
| Rear Axle | Oscillating | Oscillating |
| Oscillation Angle by Tire Size | | |
| 20.5 R25 | ± 10.5 degrees | ± 10.5 degrees |
| 23.5 R25 | — | ± 7 degrees |
| 750/65, 620/75 | ± 7 degrees | ± 7 degrees |
| Traction Aid (optional) | Limited slip differential | Limited slip differential |
| Brakes | | |
| Service | Inboard wet disc | Inboard wet disc |
| Park | Spring applied hydraulically released | Spring applied hydraulically released |

## Service Refill Capacities

| | 930 | | 938 | |
|---|---|---|---|---|
| Fuel Tank | 195 L | 51.5 gal | 195 L | 51.5 gal |
| Diesel Exhaust Fluid (DEF) Tank | 19 L | 5.0 gal | 19 L | 5.0 gal |
| Cooling System | 30 L | 7.9 gal | 32 L | 8.5 gal |
| Engine Crankcase | 20 L | 5.3 gal | 20 L | 5.3 gal |
| Transmission (Gear Box) | 8.5 L | 2.2 gal | 11 L | 2.9 gal |
| Front Axle | 26 L | 6.9 gal | 35 L | 9.2 gal |
| Rear Axle | 25 L | 6.6 gal | 35 L | 9.2 gal |
| Hydraulic System (Including Tank) | 165 L | 43.6 gal | 170 L | 44.9 gal |
| Hydraulic Tank | 90 L | 23.8 gal | 90 L | 23.8 gal |

## Transmission



* 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. Factory default is 7 km/h (4.4 mph).

| | 930 | | 938 | |
|---|---|---|---|---|
| Forward and Reverse | | | | |
| Range 1* | 1-13 km/h | 0.6-8 mph | 1-13 km/h | 0.6-8 mph |
| Range 2 | 13 km/h | 8 mph | 13 km/h | 8 mph |
| Range 3 | 27 km/h | 17 mph | 27 km/h | 17 mph |
| Range 4 | 40 km/h | 25 mph | 40 km/h | 25 mph |

## Tires

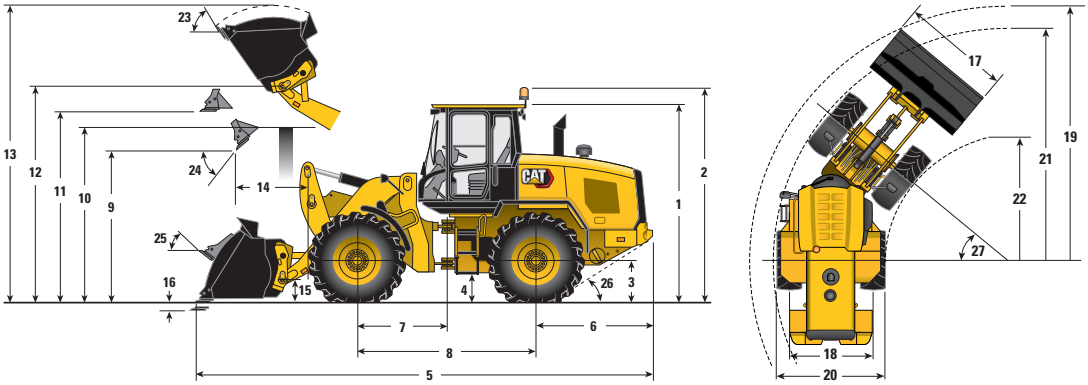
**Base specification tire (930)
***Base specification tire (938)
Other tire choices available, contact your Cat dealer for details.

| | 930 | 938 |
|---|---|---|
| 20.5 R25 Radial (L-2) | Yes | Yes |
| 20.5 R25 Radial (L-3)** | Yes | Yes |
| 23.5 R25 Radial (L-3)*** | — | Yes |
| 620/75 R26 MegaX | Yes | Yes |
| 750/65 R26 MegaX | Yes | Yes |

# 930/938 Ag Handler Specifications

## 930 Dimensions with Bucket

All dimensions are approximate. Dimensions will vary with bucket and tire choice. Refer to Operating Specifications with Buckets.



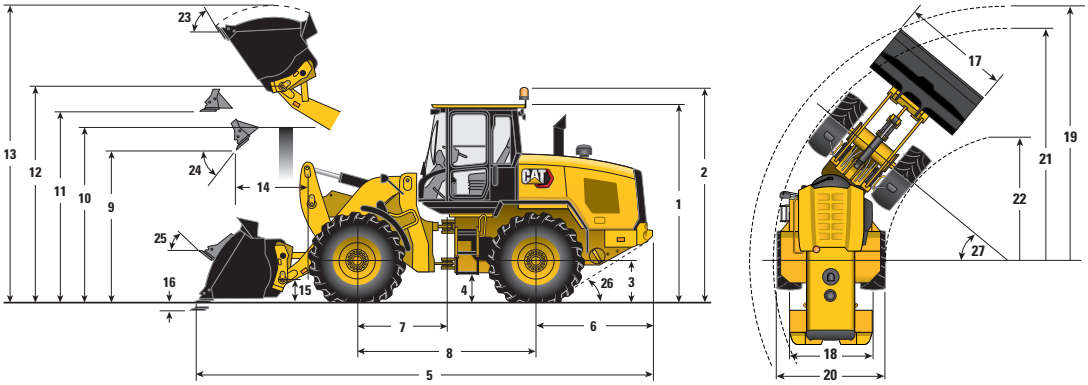

*Vary with bucket.
**Vary with tire.

| | | Standard Lift | | High Lift | |
|---|---|---|---|---|---|
| ** 1 | Height: Ground to Cab | 3340 mm | 10'11" | 3340 mm | 10'11" |
| ** 2 | Height: Ground to Beacon | 3707 mm | 12'2" | 3707 mm | 12'2" |
| ** 3 | Height: Ground to Axle Center | 685 mm | 2'3" | 685 mm | 2'3" |
| ** 4 | Height: Ground Clearance | 397 mm | 1'4" | 397 mm | 1'4" |
| * 5 | Length: Overall | 7953 mm | 26'1" | 8595 mm | 28'2" |
| 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° | 2480 mm | 8'2" | 2988 mm | 9'10" |
| ** 10 | Clearance: Load over Height | 3331 mm | 10'11" | 3550 mm | 11'8" |
| ** 11 | Clearance: Level Bucket | 3580 mm | 11'9" | 4073 mm | 13'4" |
| ** 12 | Height: Bucket Pin | 3907 mm | 12'10" | 4400 mm | 14'5" |
| ** 13 | Height: Overall | 5471 mm | 17'11" | 5964 mm | 19'7" |
| * 14 | Reach: Bucket at 45° | 1287 mm | 4'3" | 1546 mm | 5'1" |
| 15 | Carry Height: Bucket Pin | 390 mm | 1'3" | 582 mm | 1'11" |
| ** 16 | Dig Depth | 100 mm | 0'4" | 135 mm | 0'5" |
| 17 | Width: Bucket | 2750 mm | 9'0" | 2750 mm | 9'0" |
| 18 | Width: Tread Center | 1930 mm | 6'4" | 1930 mm | 6'4" |
| 19 | Turning Radius: Over Bucket | 6156 mm | 20'2" | 6485 mm | 21'3" |
| 20 | Width: Over Tires | 2540 mm | 8'4" | 2540 mm | 8'4" |
| 21 | Turning Radius: Outside of Tires | 5402 mm | 17'9" | 5402 mm | 17'9" |
| 22 | Turning Radius: Inside of Tires | 2851 mm | 9'4" | 2851 mm | 9'4" |
| 23 | Rack Angle at Full Lift | 54° | | 51° | |
| 24 | Dump Angle at Full Lift | 45° | | 44° | |
| 25 | Rack Angle at Carry | 43° | | 47° | |
| 26 | Departure Angle | 33° | | 33° | |
| 27 | Articulation Angle | 40° | | 40° | |
| | Operating Weight | 14 526 kg | 32,025 lb | 14 627 kg | 32,246 lb |

Dimensions listed are for a 930 Ag Handler configured with light material 4.2 $m^3$ (5.5 $yd^3$) Fusion bucket, bolt-on cutting edges, heavy counterweights, 80 kg (176 lb) operator, and Michelin 20.5 R25 XHA2 tires at a pressure of 2.76 bar (40 psi) in the front tires and 2.06 bar (30 psi) in the rear tires.

## 938 Dimensions with Bucket

All dimensions are approximate. Dimensions will vary with bucket and tire choice. Refer to Operating Specifications with Buckets.



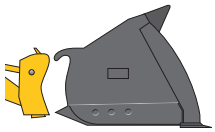
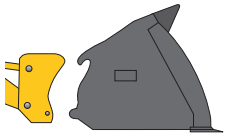

*Vary with bucket.
**Vary with tire.

| | | Standard Lift | | High Lift | |
|---|---|---|---|---|---|
| ** 1 | Height: Ground to Cab | 3405 mm | 11'2" | 3405 mm | 11'2" |
| ** 2 | Height: Ground to Beacon | 3772 mm | 12'5" | 3772 mm | 12'5" |
| ** 3 | Height: Ground to Axle Center | 750 mm | 2'6" | 750 mm | 2'6" |
| ** 4 | Height: Ground Clearance | 451 mm | 1'6" | 451 mm | 1'6" |
| * 5 | Length: Overall | 7962 mm | 26'1" | 8716 mm | 28'7" |
| 6 | Length: Rear Axle to Bumper | 1968 mm | 6'5" | 1968 mm | 6'5" |
| 7 | Length: Hitch to Front Axle | 1525 mm | 5'0" | 1525 mm | 5'0" |
| 8 | Length: Wheel Base | 3050 mm | 10'0" | 3050 mm | 10'0" |
| * 9 | Clearance: Bucket at 45° | 2599 mm | 8'6" | 3198 mm | 10'6" |
| ** 10 | Clearance: Load over Height | 3419 mm | 11'3" | 3626 mm | 11'11" |
| ** 11 | Clearance: Level Bucket | 3706 mm | 12'2" | 4287 mm | 14'1" |
| ** 12 | Height: Bucket Pin | 4034 mm | 13'3" | 4615 mm | 15'2" |
| ** 13 | Height: Overall | 5885 mm | 19'4" | 6466 mm | 21'3" |
| * 14 | Reach: Bucket at 45° | 1268 mm | 4'2" | 1562 mm | 5'1" |
| 15 | Carry Height: Bucket Pin | 378 mm | 1'3" | 603 mm | 2'0" |
| ** 16 | Dig Depth | 36 mm | 1.4" | 70 mm | 2.8" |
| 17 | Width: Bucket | 2750 mm | 9'0" | 2750 mm | 9'0" |
| 18 | Width: Tread Center | 2023 mm | 6'8" | 2023 mm | 6'8" |
| 19 | Turning Radius: Over Bucket | 6220 mm | 20'5" | 6603 mm | 21'8" |
| 20 | Width: Over Tires | 2773 mm | 9'1" | 2773 mm | 9'1" |
| 21 | Turning Radius: Outside of Tires | 5560 mm | 18'3" | 5560 mm | 18'3" |
| 22 | Turning Radius: Inside of Tires | 2803 mm | 9'2" | 2803 mm | 9'2" |
| 23 | Rack Angle at Full Lift | 54° | | 53° | |
| 24 | Dump Angle at Full Lift | 46° | | 44° | |
| 25 | Rack Angle at Carry | 41° | | 47° | |
| 26 | Departure Angle | 33° | | 33° | |
| 27 | Articulation Angle | 40° | | 40° | |
| | Operating Weight | 17 509 kg | 38,601 lb | 17 818 kg | 39,283 lb |

Dimensions listed are for a 938 Ag Handler configured with light material 5.0 $m^3$ (6.5 $yd^3$) Fusion bucket, bolt-on cutting edges, aggregate counterweights, 80 kg (176 lb) operator, and Michelin 23.5 R25 XHA2 tires at a pressure of 2.76 bar (40 psi) in the front tires and 2.06 bar (30 psi) in the rear tires.

# 930/938 Ag Handler Specifications

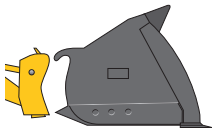
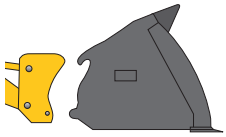
## 930 Operating Specifications with Light Material Buckets

| | | | Fusion | | | | ISO 23727 | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | |  | | | |  | | | |
| | | | Standard Lift | | High Lift | | Standard Lift | | High Lift | |
| | Rated Capacity | $m^3$ | 4.2 | 5.0 | 3.5 | 4.2 | 4.2 | 5.0 | 3.5 | 4.2 |
| | | $yd^3$ | 5.5 | 6.5 | 4.6 | 5.5 | 5.5 | 6.5 | 4.6 | 5.5 |
| | Capacity – Rated at 110% Fill Factor | $m^3$ | 4.6 | 5.5 | 3.9 | 4.6 | 4.6 | 5.5 | 3.9 | 4.6 |
| | | $yd^3$ | 6.0 | 7.2 | 5.1 | 6.0 | 6.0 | 7.2 | 5.1 | 6.0 |
| **17** | Width: Bucket | mm | 2750 | 2750 | 2750 | 2750 | 2750 | 2750 | 2750 | 2750 |
| | | ft/in | 9'0" | 9'0" | 9'0" | 9'0" | 9'0" | 9'0" | 9'0" | 9'0" |
| | Nominal Material Density, | $kg/m^3$ | 914 | 761 | 840 | 688 | 874 | 729 | 814 | 662 |
| | 110% Fill Factor | $lb/yd^3$ | 1,541 | 1,283 | 1,416 | 1,160 | 1,473 | 1,229 | 1,372 | 1,116 |
| **9** | Clearance: Full Lift, 45° Dump | mm | 2480 | 2480 | 3107 | 2988 | 2364 | 2364 | 3042 | 2874 |
| | | ft/in | 8'2" | 8'2" | 10'2" | 9'10" | 7'9" | 7'9" | 10'0" | 9'5" |
| **14** | Reach: Full Lift, 45° Dump | mm | 1287 | 1287 | 1424 | 1546 | 1320 | 1370 | 1457 | 1580 |
| | | ft/in | 4'3" | 4'3" | 4'8" | 5'1" | 4'4" | 4'6" | 4'9" | 5'2" |
| | Reach: 2130 mm (84 in) Clearance, | mm | 1588 | 1588 | 2150 | 2207 | 1569 | 1580 | 2147 | 2200 |
| | 45° Dump | ft/in | 5'3" | 5'3" | 7'1" | 7'3" | 5'2" | 5'2" | 7'1" | 7'3" |
| | Reach: Level Arm, Level Bucket | mm | 2815 | 2815 | 3168 | 3338 | 2884 | 2956 | 3237 | 3407 |
| | | ft/in | 9'3" | 9'3" | 10'5" | 10'11" | 9'6" | 9'8" | 10'7" | 11'2" |
| **16** | Dig Depth | mm | 100 | 100 | 135 | 135 | 125 | 125 | 160 | 160 |
| | | in | 3.9" | 3.9" | 5.3" | 5.3" | 4.9" | 4.9" | 6.3" | 6.3" |
| **5** | Length: Overall | mm | 7953 | 7953 | 8425 | 8595 | 8042 | 8114 | 8509 | 8679 |
| | | ft/in | 26'1" | 26'1" | 27'8" | 28'2" | 26'5" | 26'7" | 27'11" | 28'6" |
| **13** | Height: Overall | mm | 5471 | 5752 | 5802 | 5964 | 5546 | 5834 | 5872 | 6039 |
| | | ft/in | 17'11" | 18'10" | 19'0" | 19'7" | 18'2" | 19'2" | 19'3" | 19'10" |
| **19** | Turning Radius Bucket at Carry | mm | 6370 | 6370 | 6596 | 6659 | 6401 | 6425 | 6631 | 6695 |
| | | ft/in | 20'11" | 20'11" | 21'8" | 21'10" | 21'0" | 21'1" | 21'9" | 22'0" |
| | Tipping Load – Straight, ISO 14397-1* | kg | 9501 | 9464 | 7451 | 7220 | 9092 | 9070 | 7219 | 6962 |
| | | lb | 20,946 | 20,865 | 16,426 | 15,917 | 20,044 | 19,995 | 15,915 | 15,348 |
| | Tipping Load – Full Turn, ISO 14397-1* | kg | 8076 | 8037 | 6287 | 6072 | 7722 | 7696 | 6092 | 5850 |
| | | lb | 17,806 | 17,719 | 13,861 | 13,386 | 17,025 | 16,967 | 13,431 | 12,898 |
| | Breakout Force | kg | 7235 | 7181 | 7818 | 6856 | 6527 | 6482 | 7360 | 6185 |
| | | lb | 15,950 | 15,831 | 17,236 | 15,115 | 14,390 | 14,290 | 16,226 | 13,636 |
| | Operating Weight | kg | 14 526 | 14 604 | 14 497 | 14 627 | 14 484 | 14 543 | 14 421 | 14 584 |
| | | lb | 32,024 | 32,196 | 31,960 | 32,247 | 31,932 | 32,062 | 31,793 | 32,152 |

*Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculation and testing.

Dimensions listed are for a 930 Ag Handler configured with heavy counterweights, 80 kg (176 lb) operator, and Michelin 20.5 R25 XHA2 tires at a pressure of 2.76 bar (40 psi) in the front tires and 2.06 bar (30 psi) in the rear tires.

## 938 Operating Specifications with Light Material Buckets

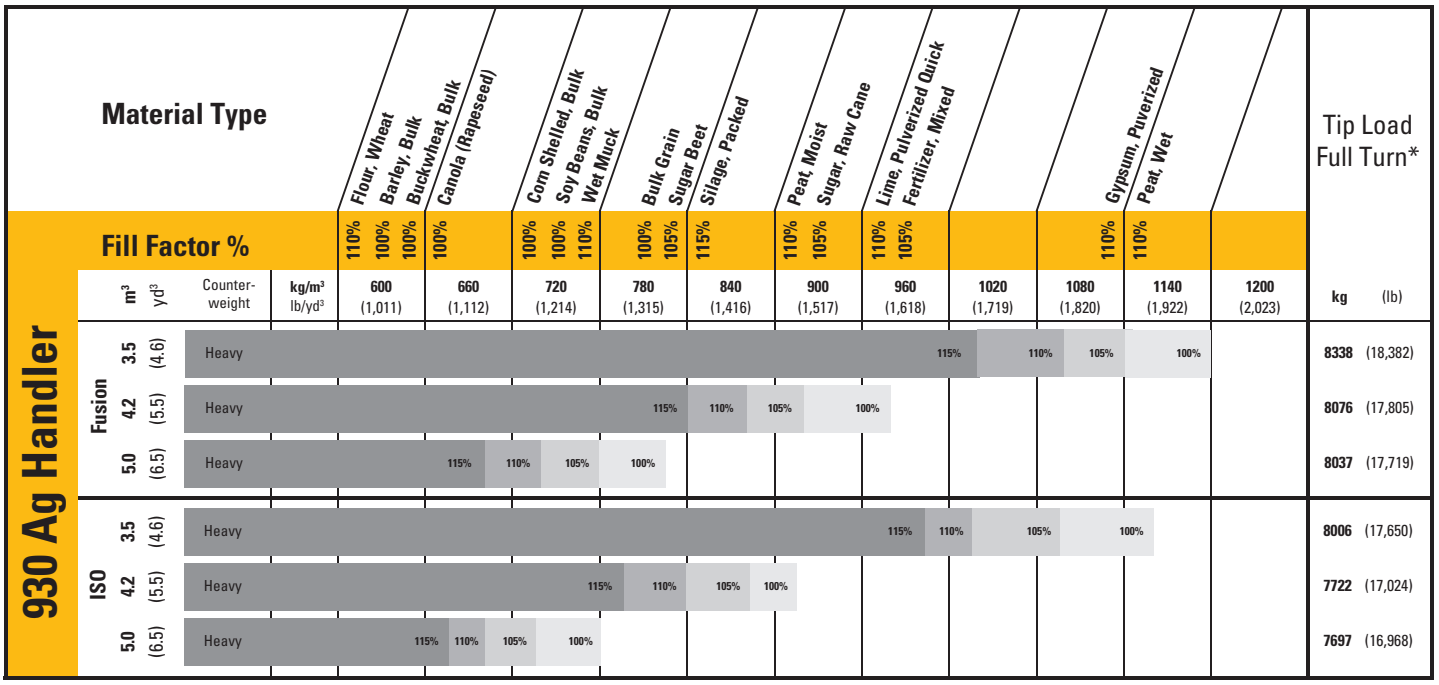
| | | | Fusion | | | | ISO 23727 | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | |  | | | |  | | | |
| | | | Standard Lift | | High Lift | | Standard Lift | | High Lift | |
| | Rated Capacity | $m^3$ | 4.2 | 5.0 | 3.5 | 4.2 | 4.2 | 5.0 | 3.5 | 4.2 |
| | | $yd^3$ | 5.5 | 6.5 | 4.6 | 5.5 | 5.5 | 6.5 | 4.6 | 5.5 |
| | Capacity – Rated at 110% Fill Factor | $m^3$ | 4.6 | 5.5 | 3.9 | 4.6 | 4.6 | 5.5 | 3.9 | 4.6 |
| | | $yd^3$ | 6.0 | 7.2 | 5.1 | 6.0 | 6.0 | 7.2 | 5.1 | 6.0 |
| **17** | Width: Bucket | mm | 2750 | 2750 | 2750 | 2750 | 2750 | 2750 | 2750 | 2750 |
| | | ft/in | 9'0" | 9'0" | 9'0" | 9'0" | 9'0" | 9'0" | 9'0" | 9'0" |
| | Nominal Material Density, | $kg/m^3$ | 1162 | 969 | 1033 | 850 | 1121 | 936 | 1010 | 828 |
| | 110% Fill Factor | $lb/yd^3$ | 1,959 | 1,633 | 1,741 | 1,433 | 1,890 | 1,578 | 1,702 | 1,396 |
| **9** | Clearance: Full Lift, 45° Dump | mm | 2599 | 2599 | 3316 | 3198 | 2489 | 2489 | 3259 | 3091 |
| | | ft/in | 8'6" | 8'6" | 10'11" | 10'6" | 8'2" | 8'2" | 10'8" | 10'2" |
| **14** | Reach: Full Lift, 45° Dump | mm | 1268 | 1268 | 1439 | 1562 | 1292 | 1343 | 1465 | 1588 |
| | | ft/in | 4'2" | 4'2" | 4'9" | 5'1" | 4'3" | 4'5" | 4'10" | 5'3" |
| | Reach: 2130 mm (84 in) Clearance, | mm | 1646 | 1646 | 2277 | 2341 | 1632 | 1647 | 2274 | 2336 |
| | 45° Dump | ft/in | 5'5" | 5'5" | 7'6" | 7'8" | 5'4" | 5'5" | 7'6" | 7'8" |
| | Reach: Level Arm, Level Bucket | mm | 2801 | 2801 | 3239 | 3409 | 2860 | 2932 | 3297 | 3467 |
| | | ft/in | 9'2" | 9'2" | 10'8" | 11'2" | 9'5" | 9'7" | 10'10" | 11'4" |
| **16** | Dig Depth | mm | 36 | 36 | 70 | 70 | 60 | 60 | 95 | 95 |
| | | in | 1.4" | 1.4" | 2.8" | 2.8" | 2.4" | 2.4" | 3.7" | 3.7" |
| **5** | Length: Overall | mm | 7962 | 7962 | 8546 | 8716 | 8041 | 8113 | 8621 | 8791 |
| | | ft/in | 26'1" | 26'1" | 28'0" | 28'7" | 26'5" | 26'7" | 28'3" | 28'10" |
| **13** | Height: Overall | mm | 5604 | 5885 | 6022 | 6185 | 5672 | 5960 | 6086 | 6253 |
| | | ft/in | 18'5" | 19'4" | 19'9" | 20'4" | 18'7" | 19'7" | 20'0" | 20'6" |
| **19** | Turning Radius Bucket at Carry | mm | 6448 | 6448 | 6715 | 6777 | 6476 | 6500 | 6746 | 6809 |
| | | ft/in | 21'2" | 21'2" | 22'0" | 22'3" | 21'3" | 21'4" | 22'2" | 22'4" |
| | Tipping Load – Straight, ISO 14397-1* | kg | 12 050 | 12 021 | 9160 | 8919 | 11 626 | 11 613 | 8951 | 8683 |
| | | lb | 26,566 | 26,502 | 20,194 | 19,663 | 25,632 | 25,602 | 19,734 | 19,144 |
| | Tipping Load – Full Turn, ISO 14397-1* | kg | 10 263 | 10 232 | 7735 | 7511 | 9901 | 9884 | 7567 | 7315 |
| | | lb | 22,627 | 22,557 | 17,052 | 16,559 | 21,829 | 21,791 | 16,682 | 16,127 |
| | Breakout Force | kg | 9883 | 9829 | 10 753 | 9486 | 9041 | 8995 | 10 252 | 8673 |
| | | lb | 21,788 | 21,669 | 23,706 | 20,913 | 19,932 | 19,831 | 22,602 | 19,121 |
| | Operating Weight | kg | 17 432 | 17 509 | 17 611 | 17 741 | 17 344 | 17 404 | 17 490 | 17 653 |
| | | lb | 38,431 | 38,601 | 38,826 | 39,112 | 38,237 | 38,369 | 38,559 | 38,918 |

*Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculation and testing.

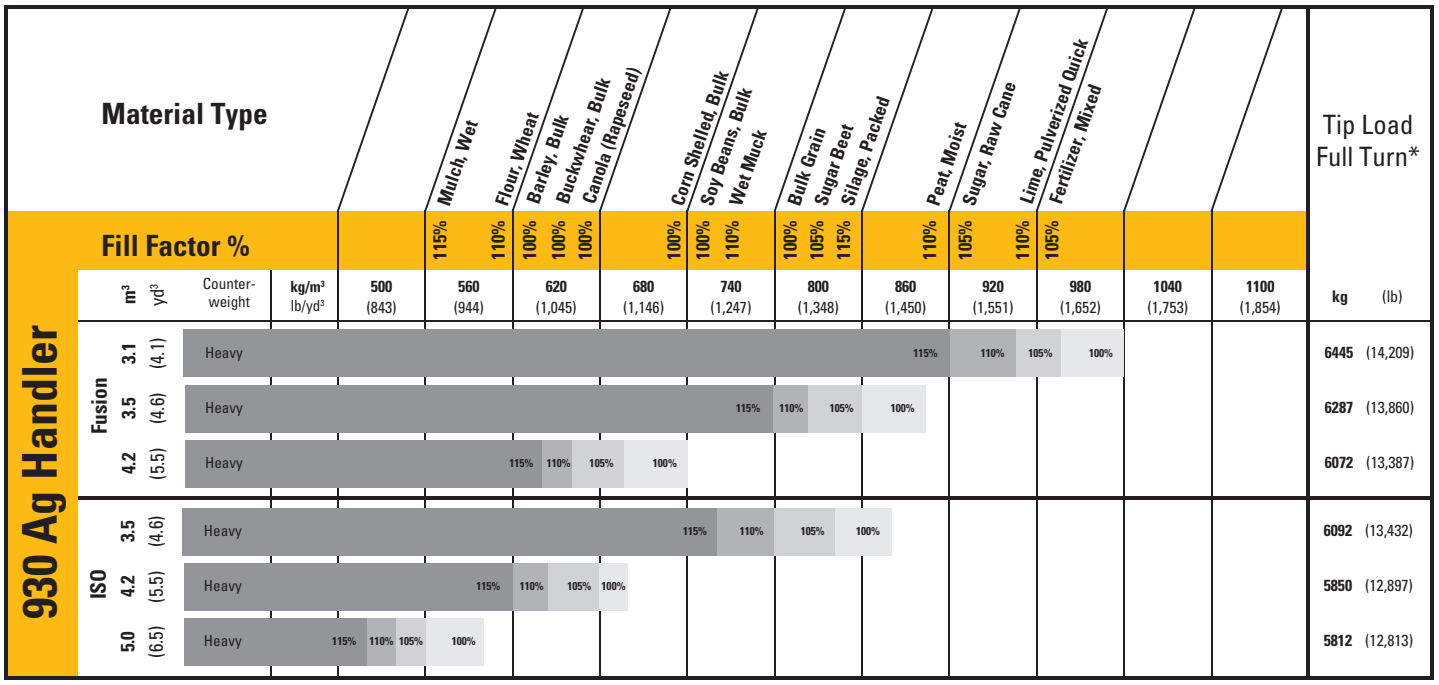
Dimensions listed are for a 938 Ag Handler configured with aggregate counterweights, 80 kg (176 lb) operator, and Michelin 23.5 R25 XHA2 tires at a pressure of 2.76 bar (40 psi) in the front tires and 2.06 bar (30 psi) in the rear tires.

# 930/938 Ag Handler Specifications

## 930 Light Material Bucket Selection – Standard Lift



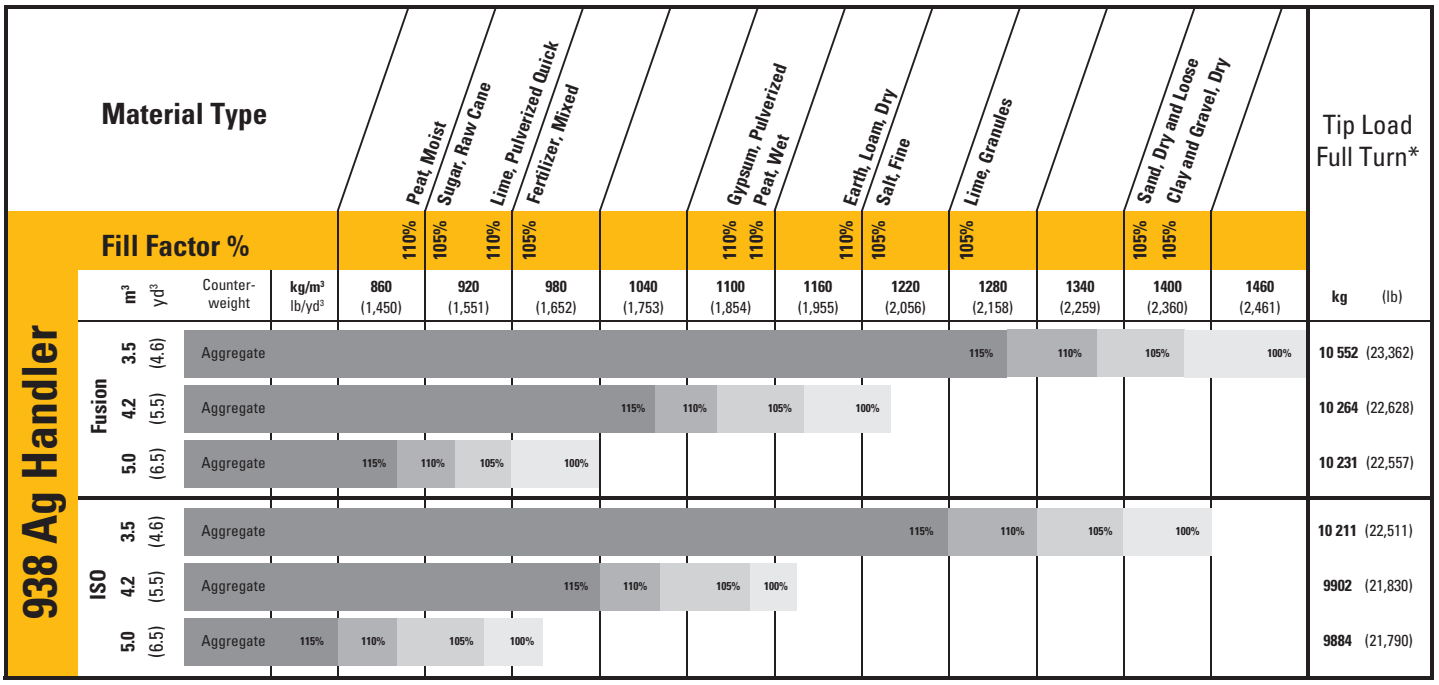

## 930 Light Material Bucket Selection – High Lift



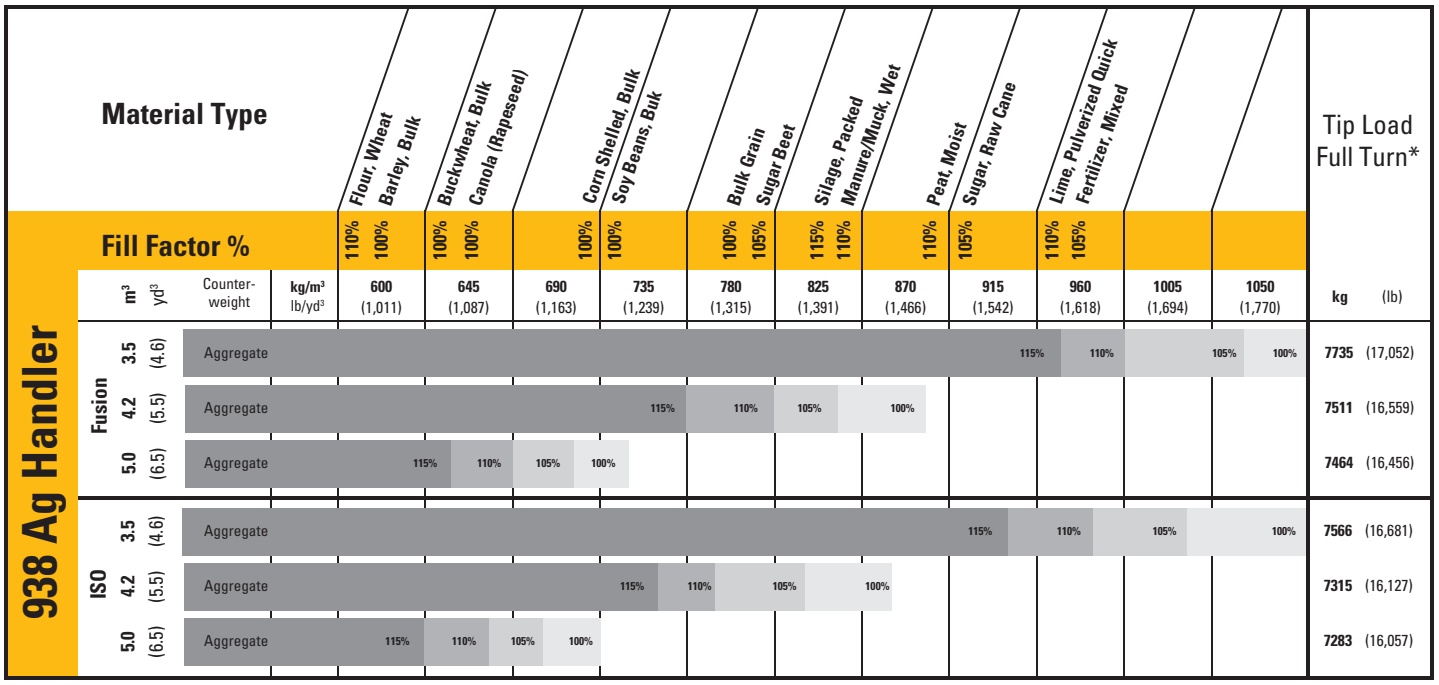

Material density, fill factor, and counterweight options are key variables when choosing the appropriate size of the bucket. The long floor and open throat design of the performance series buckets along with the aggressive rack angles of the optimized linkage will demonstrate fill factors greater than 100% ISO rated. Refer to the expected fill factor % per material type at the top of the table and find a matching counterweight and fill factor along the side for proper bucket sizing.

*Full compliance to ISO 14397-1:2007 Section 1 thru 6, which requires 2% verification between calculation and testing.

## 938 Light Material Bucket Selection – Standard Lift




## 938 Light Material Bucket Selection – High Lift

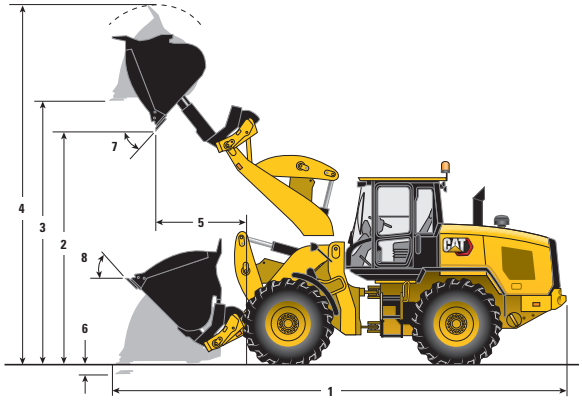



Material density, fill factor, and counterweight options are key variables when choosing the appropriate size of the bucket. The long floor and open throat design of the performance series buckets along with the aggressive rack angles of the optimized linkage will demonstrate fill factors greater than 100% ISO rated. Refer to the expected fill factor % per material type at the top of the table and find a matching counterweight and fill factor along the side for proper bucket sizing.

*Full compliance to ISO 14397-1:2007 Section 1 thru 6, which requires 2% verification between calculation and testing.

# 930/938 Ag Handler Specifications

## 930 Operating Specifications with High Dump Buckets




Fusion

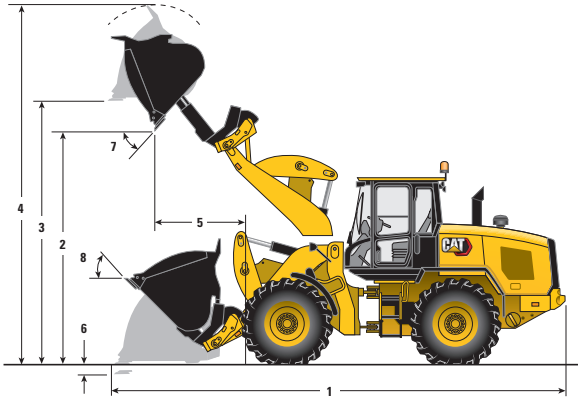
ISO 23727

| | | | Standard Lift | | | | | | High Lift | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Fusion | | | ISO 23727 | | | Fusion | | | ISO 23727 | | |
| | Rated Capacity | $m^3$ | 3.5 | 4.1 | 5.0 | 3.5 | 4.1 | 5.0 | 3.5 | 4.1 | 5.0 | 3.5 | 4.1 | 5.0 |
| | | $yd^3$ | 4.6 | 5.4 | 6.5 | 4.6 | 5.4 | 6.5 | 4.6 | 5.4 | 6.5 | 4.6 | 5.4 | 6.5 |
| | Capacity – Rated at 110% | $m^3$ | 3.9 | 4.5 | 5.5 | 3.9 | 4.5 | 5.5 | 3.9 | 4.5 | 5.5 | 3.9 | 4.5 | 5.5 |
| | Fill Factor | $yd^3$ | 5.1 | 5.9 | 7.2 | 5.1 | 5.9 | 7.2 | 5.1 | 5.9 | 7.2 | 5.1 | 5.9 | 7.2 |
| | Bucket Width | mm | 2723 | 3032 | 3032 | 2723 | 3032 | 3032 | 2723 | 3032 | 3032 | 2723 | 3032 | 3032 |
| | | ft/in | 8'11" | 9'11" | 9'11" | 8'11" | 9'11" | 9'11" | 8'11" | 9'11" | 9'11" | 8'11" | 9'11" | 9'11" |
| | Nominal Material Density | $kg/m^3$ | 878 | 714 | 576 | 834 | 678 | 543 | 654 | 523 | 420 | 625 | 499 | 398 |
| | 110% Fill Factor | $lb/yd^3$ | 1,480 | 1,203 | 971 | 1,406 | 1,143 | 915 | 1,102 | 882 | 708 | 1,053 | 841 | 671 |
| **1** | Length: Overall | mm | 8096 | 8177 | 8286 | 8283 | 8364 | 8474 | 8737 | 8815 | 8924 | 8926 | 9003 | 9112 |
| | | ft/in | 26'7" | 26'10" | 27'2" | 27'2" | 27'5" | 27'10" | 28'8" | 28'11" | 29'3" | 29'3" | 29'6" | 29'11" |
| **2** | Dump Clearance: | mm | 4338 | 4289 | 4377 | 4526 | 4478 | 4567 | 4764 | 4714 | 4799 | 4948 | 4898 | 4984 |
| | Full Lift Rolled Out | ft/in | 14'3" | 14'1" | 14'4" | 14'10" | 14'8" | 15'0" | 15'8" | 15'6" | 15'9" | 16'3" | 16'1" | 16'4" |
| **3** | Clearance: Level Bucket | mm | 4629 | 4609 | 4697 | 4807 | 4787 | 4876 | 5079 | 5059 | 5144 | 5253 | 5233 | 5319 |
| | | ft/in | 15'2" | 15'1" | 15'5" | 15'9" | 15'8" | 16'0" | 16'8" | 16'7" | 16'11" | 17'3" | 17'2" | 17'5" |
| **4** | Height: Overall | mm | 6344 | 6344 | 6576 | 6522 | 6522 | 6756 | 6795 | 6795 | 7023 | 6969 | 6969 | 7199 |
| | | ft/in | 20'10" | 20'10" | 21'7" | 21'5" | 21'5" | 22'2" | 22'4" | 22'4" | 23'0" | 22'10" | 22'10" | 23'7" |
| **5** | Reach: Full Lift Rolled Out | mm | 1699 | 1747 | 1811 | 1796 | 1844 | 1907 | 1955 | 2000 | 2069 | 2060 | 2107 | 2173 |
| | | ft/in | 5'7" | 5'9" | 5'11" | 5'11" | 6'1" | 6'3" | 6'5" | 6'7" | 6'9" | 6'9" | 6'11" | 7'2" |
| **6** | Dig Depth | mm | 100 | 120 | 120 | 93 | 113 | 113 | 135 | 155 | 155 | 128 | 148 | 148 |
| | | ft/in | 3.9" | 4.7" | 4.7" | 3.7" | 4.4" | 4.4" | 5.3" | 6.1" | 6.1" | 5.0" | 5.8" | 5.8" |
| | Turning Radius Bucket | mm | 6192 | 6357 | 6394 | 6244 | 6408 | 6446 | 6525 | 6687 | 6727 | 6579 | 6741 | 6781 |
| | at Carry | ft/in | 20'4" | 20'10" | 21'0" | 20'6" | 21'0" | 21'2" | 21'5" | 21'11" | 22'1" | 21'7" | 22'1" | 22'3" |
| **7** | Maximum Dump Angle | degree | 28 | 28 | 28 | 27 | 27 | 27 | 31 | 31 | 31 | 30 | 30 | 30 |
| **8** | Rack Angle at Carry | degree | 43 | 43 | 43 | 44 | 44 | 44 | 47 | 47 | 47 | 48 | 48 | 48 |
| | Tipping Load – | kg | 8315 | 7872 | 7770 | 7916 | 7486 | 7357 | 6287 | 5877 | 5778 | 6017 | 5617 | 5493 |
| | Straight ISO 14397-1* | lb | 18,331 | 17,354 | 17,129 | 17,452 | 16,505 | 16,220 | 13,860 | 12,957 | 12,739 | 13,265 | 12,384 | 12,110 |
| | Tipping Load – | kg | 6995 | 6565 | 6468 | 6647 | 6230 | 6105 | 5211 | 4812 | 4716 | 4976 | 4587 | 4466 |
| | Full Turn ISO 14397-1* | lb | 15,420 | 14,474 | 14,261 | 14,654 | 13,736 | 13,458 | 11,488 | 10,608 | 10,398 | 10,969 | 10,112 | 9,846 |
| | Breakout Force | kg | 6617 | 6143 | 5651 | 5732 | 5298 | 4887 | 6255 | 5795 | 5325 | 5417 | 4997 | 4602 |
| | | lb | 14,588 | 13,543 | 12,458 | 12,637 | 11,680 | 10,774 | 13,790 | 12,776 | 11,740 | 11,942 | 11,016 | 10,146 |
| | Operating Weight | kg | 15 023 | 15 357 | 15 452 | 15 012 | 15 340 | 15 441 | 15 124 | 15 457 | 15 553 | 15 112 | 15 440 | 15 541 |
| | | lb | 33,120 | 33,856 | 34,066 | 33,096 | 33,819 | 34,042 | 33,343 | 34,077 | 34,288 | 33,316 | 34,039 | 34,262 |

*Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculation and testing.

Dimensions listed are for a 930 Ag Handler configured with buckets, bolt-on cutting edges, heavy counterweights, 80 kg (176 lb) operator, and Michelin 20.5 R25 XHA2 tires at a pressure of 2.76 bar (40 psi) in the front tires and 2.06 bar (30 psi) in the rear tires.

## 938 Operating Specifications with High Dump Buckets




Fusion

ISO 23727

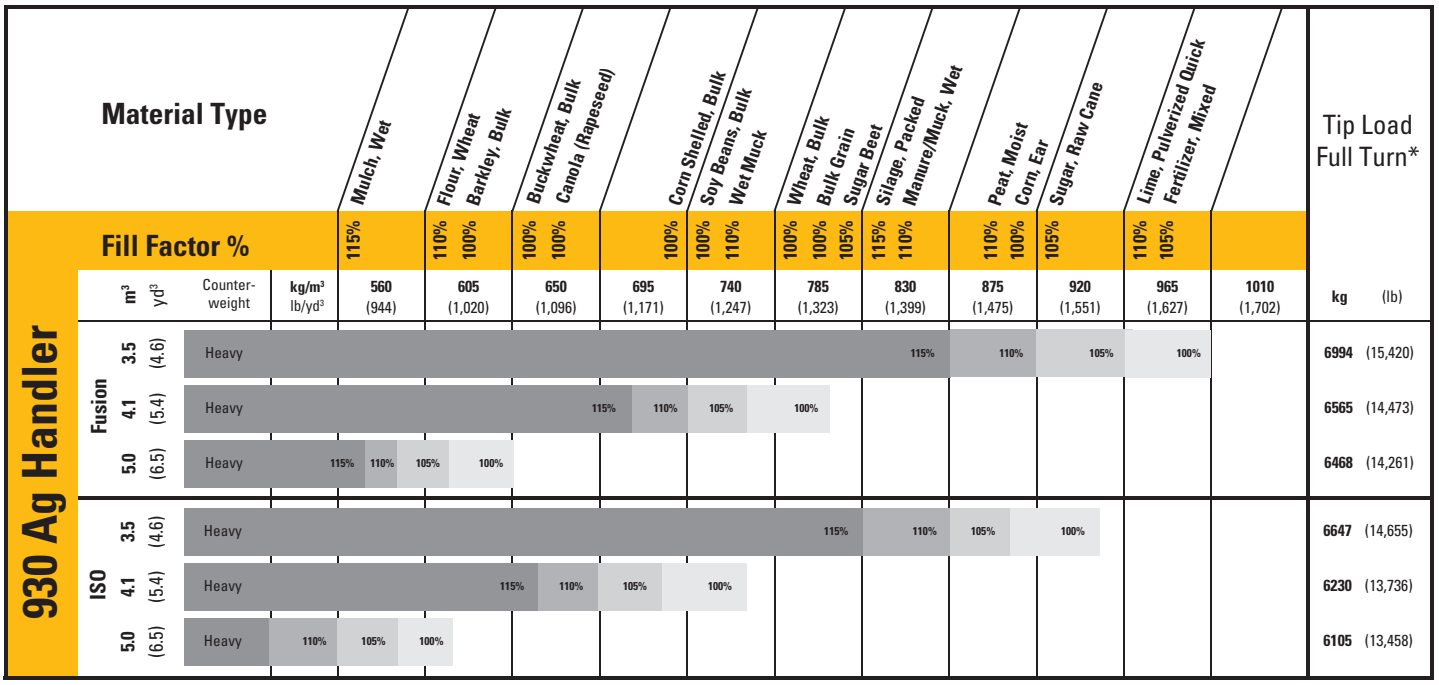
| | | | Standard Lift | | | | | | High Lift | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Fusion | | | ISO 23727 | | | Fusion | | | ISO 23727 | | |
| | Rated Capacity | $m^3$ | 3.5 | 4.1 | 5.0 | 3.5 | 4.1 | 5.0 | 3.5 | 4.1 | 5.0 | 3.5 | 4.1 | 5.0 |
| | | $yd^3$ | 4.6 | 5.4 | 6.5 | 4.6 | 5.4 | 6.5 | 4.6 | 5.4 | 6.5 | 4.6 | 5.4 | 6.5 |
| | Capacity – Rated at 110% | $m^3$ | 3.9 | 4.5 | 5.5 | 3.9 | 4.5 | 5.5 | 3.9 | 4.5 | 5.5 | 3.9 | 4.5 | 5.5 |
| | Fill Factor | $yd^3$ | 5.1 | 5.9 | 7.2 | 5.1 | 5.9 | 7.2 | 5.1 | 5.9 | 7.2 | 5.1 | 5.9 | 7.2 |
| | Bucket Width | mm | 2723 | 3032 | 3032 | 2723 | 3032 | 3032 | 2723 | 3032 | 3032 | 2723 | 3032 | 3032 |
| | | ft/in | 8'11" | 9'11" | 9'11" | 8'11" | 9'11" | 9'11" | 8'11" | 9'11" | 9'11" | 8'11" | 9'11" | 9'11" |
| | Nominal Material Density | $kg/m^3$ | 1135 | 936 | 757 | 1091 | 899 | 724 | 827 | 673 | 542 | 801 | 651 | 522 |
| | 110% Fill Factor | $lb/yd^3$ | 1,913 | 1,578 | 1,276 | 1,839 | 1,515 | 1,220 | 1,394 | 1,134 | 914 | 1,350 | 1,097 | 880 |
| **1** | Length: Overall | mm | 8104 | 8187 | 8296 | 8281 | 8363 | 8472 | 8859 | 8937 | 9046 | 9037 | 9115 | 9224 |
| | | ft/in | 26'7" | 26'10" | 27'3" | 27'2" | 27'5" | 27'10" | 29'1" | 29'4" | 29'8" | 29'8" | 29'11" | 30'3" |
| **2** | Dump Clearance: | mm | 4484 | 4436 | 4525 | 4665 | 4618 | 4708 | 5023 | 4973 | 5060 | 5201 | 5152 | 5241 |
| | Full Lift Rolled Out | ft/in | 14'9" | 14'7" | 14'10" | 15'4" | 15'2" | 15'5" | 16'6" | 16'4" | 16'7" | 17'1" | 16'11" | 17'2" |
| **3** | Clearance: Level Bucket | mm | 4771 | 4751 | 4839 | 4942 | 4922 | 5012 | 5325 | 5305 | 5392 | 5493 | 5473 | 5561 |
| | | ft/in | 15'8" | 15'7" | 15'11" | 16'3" | 16'2" | 16'5" | 17'6" | 17'5" | 17'8" | 18'0" | 17'11" | 18'3" |
| **4** | Height: Overall | mm | 6486 | 6486 | 6719 | 6657 | 6657 | 6891 | 7040 | 7040 | 7271 | 7209 | 7209 | 7441 |
| | | ft/in | 21'3" | 21'3" | 22'1" | 21'10" | 21'10" | 22'7" | 23'1" | 23'1" | 23'10" | 23'8" | 23'8" | 24'5" |
| **5** | Reach: Full Lift Rolled Out | mm | 1677 | 1725 | 1788 | 1765 | 1814 | 1876 | 1956 | 2003 | 2069 | 2050 | 2098 | 2162 |
| | | ft/in | 5'6" | 5'8" | 5'10" | 5'9" | 5'11" | 6'2" | 6'5" | 6'7" | 6'9" | 6'9" | 6'11" | 7'1" |
| **6** | Dig Depth | mm | 36 | 56 | 56 | 29 | 49 | 49 | 70 | 90 | 90 | 63 | 83 | 83 |
| | | ft/in | 1.4" | 2.2" | 2.2" | 1.1" | 1.9" | 1.9" | 2.8" | 3.5" | 3.5" | 2.5" | 3.3" | 3.3" |
| | Turning Radius Bucket | mm | 6257 | 6423 | 6461 | 6308 | 6474 | 6512 | 6644 | 6806 | 6847 | 6696 | 6857 | 6898 |
| | at Carry | ft/in | 20'6" | 21'1" | 21'2" | 20'8" | 21'3" | 21'4" | 21'10" | 22'4" | 22'6" | 22'0" | 22'6" | 22'8" |
| **7** | Maximum Dump Angle | degree | 28 | 28 | 28 | 27 | 27 | 27 | 30 | 30 | 30 | 29 | 29 | 29 |
| **8** | Rack Angle at Carry | degree | 41 | 41 | 41 | 42 | 42 | 42 | 47 | 47 | 47 | 48 | 48 | 48 |
| | Tipping Load – | kg | 10 703 | 10 245 | 10 139 | 10 291 | 9846 | 9716 | 7913 | 7497 | 7400 | 7667 | 7260 | 7139 |
| | Straight ISO 14397-1* | lb | 23,596 | 22,587 | 22,354 | 22,687 | 21,708 | 21,419 | 17,446 | 16,528 | 16,314 | 16,903 | 16,007 | 15,739 |
| | Tipping Load – | kg | 9044 | 8602 | 8502 | 8690 | 8260 | 8133 | 6588 | 6184 | 6090 | 6379 | 5985 | 5866 |
| | Full Turn ISO 14397-1* | lb | 19,939 | 18,963 | 18,743 | 19,158 | 18,210 | 17,930 | 14,525 | 13,634 | 13,427 | 14,064 | 13,194 | 12,931 |
| | Breakout Force | kg | 9155 | 8608 | 7972 | 8083 | 7589 | 7054 | 8774 | 8239 | 7625 | 7747 | 7262 | 6745 |
| | | lb | 20,183 | 18,977 | 17,575 | 17,820 | 16,731 | 15,551 | 19,343 | 18,164 | 16,810 | 17,079 | 16,010 | 14,870 |
| | Operating Weight | kg | 17 929 | 18 262 | 18 358 | 17 873 | 18 200 | 18 301 | 18 238 | 18 571 | 18 667 | 18 182 | 18 510 | 18 611 |
| | | lb | 39,527 | 40,261 | 40,472 | 39,403 | 40,124 | 40,347 | 40,208 | 40,942 | 41,154 | 40,084 | 40,808 | 41,030 |

*Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculation and testing.

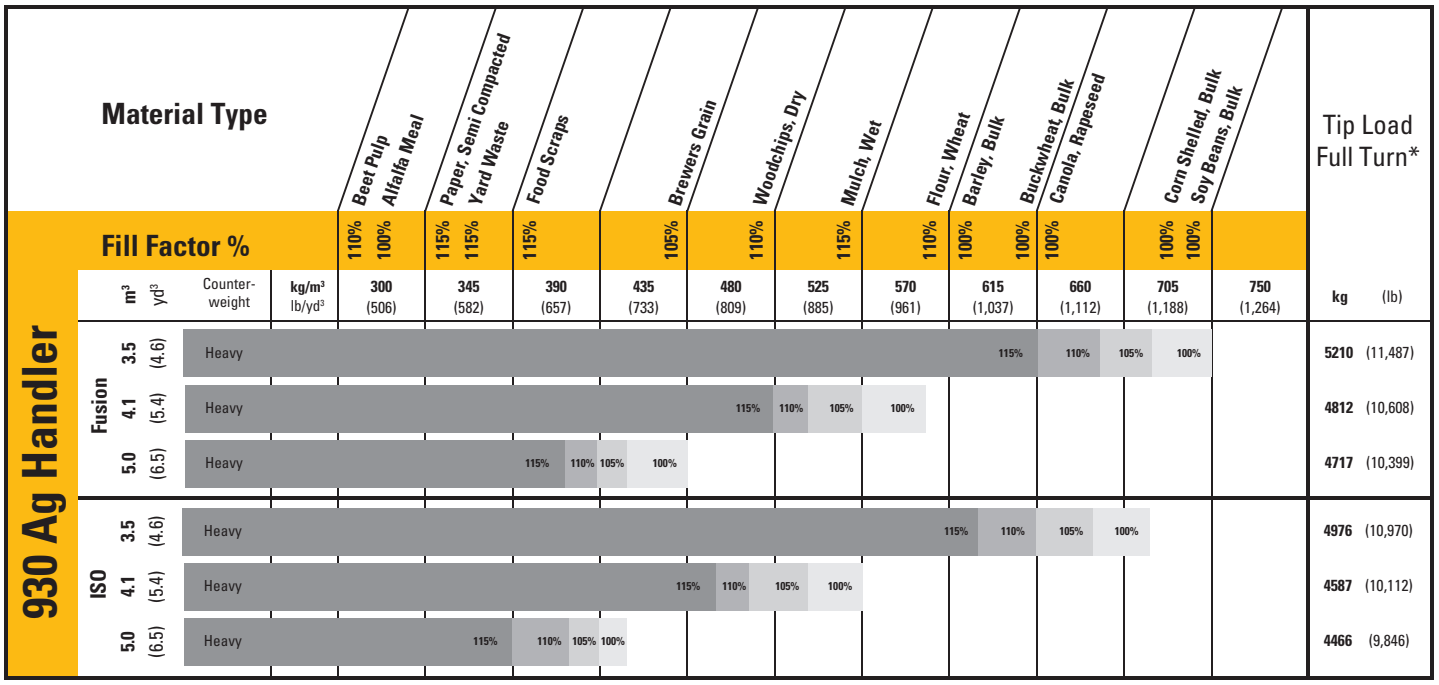
Dimensions listed are for a 938 Ag Handler configured with buckets, bolt-on cutting edges, aggregate counterweights, 80 kg (176 lb) operator, and Michelin 23.5 R25 XHA2 tires at a pressure of 2.76 bar (40 psi) in the front tires and 2.06 bar (30 psi) in the rear tires.

# 930/938 Ag Handler Specifications

## 930 High Dump Bucket Selection – Standard Lift



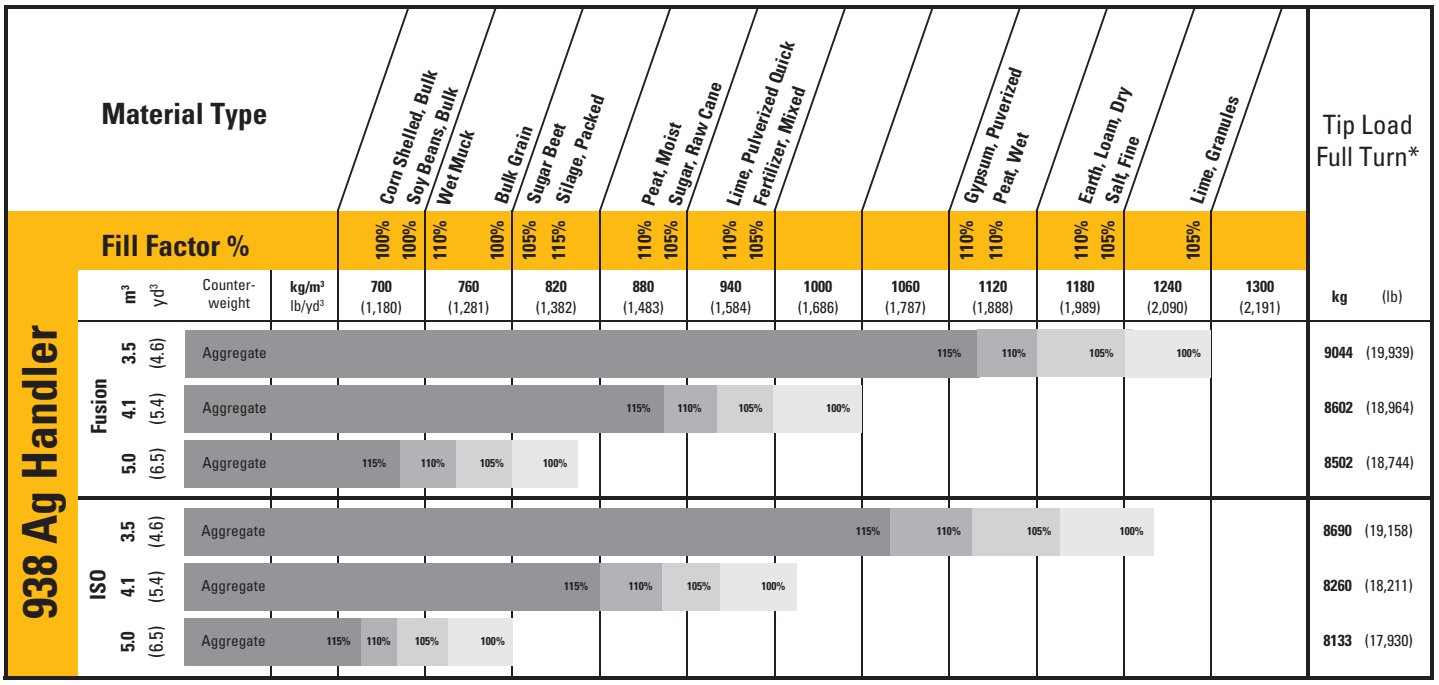

## 930 High Dump Bucket Selection – High Lift



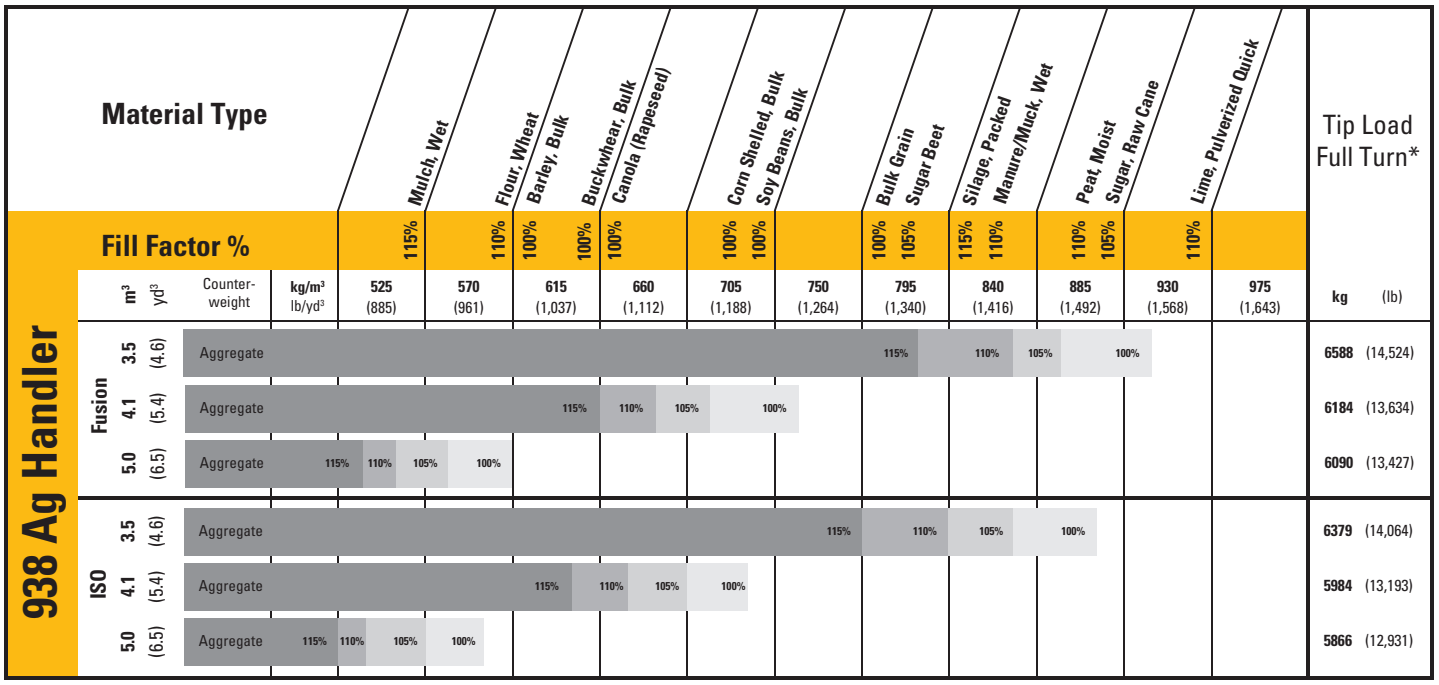

Material density, fill factor, and counterweight options are key variables when choosing the appropriate size of the bucket. The long floor and open throat design of the performance series buckets along with the aggressive rack angles of the optimized linkage will demonstrate fill factors greater than 100% ISO rated. Refer to the expected fill factor % per material type at the top of the table and find a matching counterweight and fill factor along the side for proper bucket sizing.

*Full compliance to ISO 14397-1:2007 Section 1 thru 6, which requires 2% verification between calculation and testing.

## 938 High Dump Bucket Selection – Standard Lift




## 938 High Dump Bucket Selection – High Lift



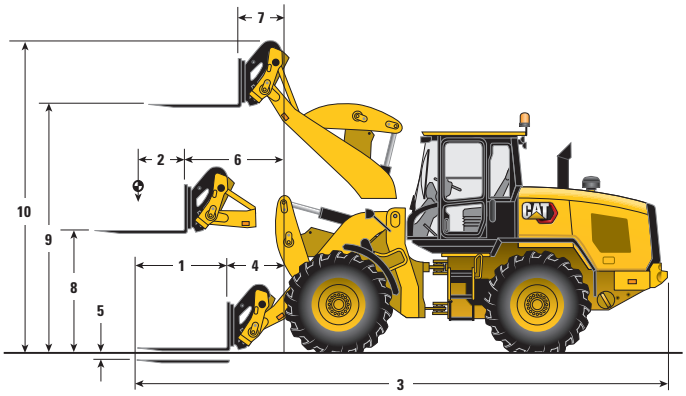

Material density, fill factor, and counterweight options are key variables when choosing the appropriate size of the bucket. The long floor and open throat design of the performance series buckets along with the aggressive rack angles of the optimized linkage will demonstrate fill factors greater than 100% ISO rated. Refer to the expected fill factor % per material type at the top of the table and find a matching counterweight and fill factor along the side for proper bucket sizing.

*Full compliance to ISO 14397-1:2007 Section 1 thru 6, which requires 2% verification between calculation and testing.

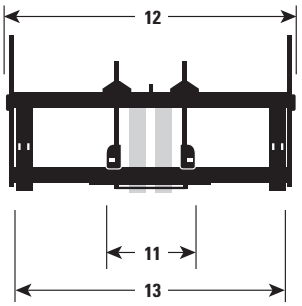
# 930/938 Ag Handler Specifications

## Operating Specifications with Construction Forks

All dimensions are approximate. Dimensions will vary with bucket and tire choice. Refer to Operating Specifications with Buckets.




### Construction Fork




| | 930 | | | | 938 | | | |
|---|---|---|---|---|---|---|---|---|
| | Standard Lift | | High Lift | | Standard Lift | | High Lift | |
| | mm | (ft/in) | mm | (ft/in) | mm | (ft/in) | mm | (ft/in) |
| **1** Fork tine length | 1524 | (5'0") | 1524 | (5'0") | 1524 | (5'0") | 1524 | (5'0") |
| **2** Load center | 762 | (2'6") | 762 | (2'6") | 762 | (2'6") | 762 | (2'6") |
| **3** Length: overall | 8311 | (27'3") | 8947 | (29'4") | 8319 | (27'4") | 9068 | (29'9") |
| **4** Reach: ground | 1050 | (3'5") | 1687 | (5'6") | 971 | (3'2") | 1720 | (5'8") |
| **5** Height (bottom of tine)***: minimum | 126 | (5.0") | 161 | (6.3") | 60 | (2.3") | 94 | (3.7") |
| **6** Reach: level arm | 1628 | (5'4") | 2151 | (7'1") | 1614 | (5'4") | 2221 | (7'3") |
| **7** Reach: full lift | 826 | (2'9") | 1063 | (3'6") | 811 | (2'8") | 1077 | (3'6") |
| **8** Height (top of tine): level arm | 1724 | (5'8") | 1724 | (5'8") | 1825 | (6'0") | 1825 | (6'0") |
| **9** Height (top of tine): full lift | 3625 | (11'11") | 4118 | (13'6") | 3753 | (12'4") | 4334 | (14'3") |
| **10** Height: overall | 4935 | (16'2") | 5428 | (17'10") | 5064 | (16'7") | 5645 | (18'6") |
| **11** Minimum fork spacing | 300 | (1'0") | 300 | (1'0") | 300 | (1'0") | 300 | (1'0") |
| **12** Carriage width | 1566 | (5'2") | 1566 | (5'2") | 2498 | (8'2") | 2498 | (8'2") |
| **13** Maximum fork spacing | 1550 | (5'1") | 1550 | (5'1") | 2375 | (7'10") | 2375 | (7'10") |
| | **kg** | **(lb)** | **kg** | **(lb)** | **kg** | **(lb)** | **kg** | **(lb)** |
| Tipping load – straight, ISO 14397-1* | 7190 | (15,852) | 5876 | (12,954) | 9053 | (19,958) | 7200 | (15,874) |
| Tipping load – full turn, ISO 14397-1* | 6151 | (13,561) | 4988 | (10,998) | 7749 | (17,084) | 6110 | (13,469) |
| Operating weight | 14 045 | (30,964) | 14146 | (31,186) | 16 951 | (37,370) | 17 260 | (38,052) |
| Rated load % of full turn tip: | | | | | | | | |
| 50% of tip: SAE J1197** | 3076 | (6,781) | 2494 | (5,499) | 3874 | (8,542) | 3055 | (6,735) |
| 60% of tip: rough terrain EN474-3** | 3691 | (8,137) | 2993 | (6,599) | 4649 | (10,250) | 3666 | (8,082) |
| 80% of tip: firm and level EN474-3** | 4921 | (10,849) | 3991 | (8,798) | 6199 | (13,667) | 4888 | (10,776) |
| Counterweight Selection | Heavy Counterweight | | | | Aggregate Counterweight | | | |
| Tire Selection | 20.5 R25 XHA2 | | | | 23.5 R25 XHA2 | | | |

*Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculation and testing.

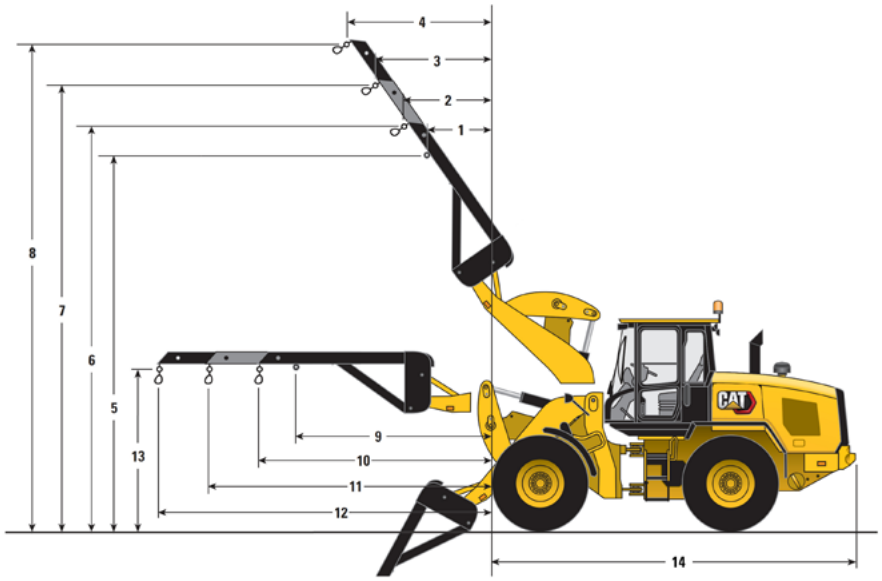
**Compliance to EN474-3 and SAE J1197.

***Negative value indicates above ground.

Dimensions listed are for a machine with an 80 kg (176 lb) operator.

## Operating Specifications with Material Handling Arm

All dimensions are approximate. Dimensions will vary with bucket and tire choice. Refer to Operating Specifications with Buckets.




| | 930 | | | | 938 | | | |
|---|---|---|---|---|---|---|---|---|
| | Standard Lift | | High Lift | | Standard Lift | | High Lift | |
| | mm | (ft/in) | mm | (ft/in) | mm | (ft/in) | mm | (ft/in) |
| **1** Reach: Full raise at fixed tab | 1451 | (4'9") | 1765 | (5'9") | 1418 | (4'8") | 1734 | (5'8") |
| **2** Reach: Full raise at minimum length | 1676 | (5'6") | 2005 | (6'7") | 1640 | (5'5") | 1966 | (6'5") |
| **3** Reach: Full raise at mid position | 2156 | (7'1") | 2505 | (8'3") | 2116 | (6'11") | 2456 | (8'1") |
| **4** Reach: Full raise at maximum length | 2636 | (8'8") | 3006 | (9'10") | 2592 | (8'6") | 2945 | (9'8") |
| **5** Clearance: Full raise at fixed tab | 5544 | (18'2") | 5981 | (19'7") | 5688 | (18'8") | 6234 | (20'5") |
| **6** Clearance: Full raise at minimum length | 5859 | (19'3") | 6285 | (20'7") | 6005 | (19'8") | 6544 | (21'6") |
| **7** Clearance: Full raise at mid position | 6304 | (20'8") | 6707 | (22'0") | 6455 | (21'2") | 6979 | (22'11") |
| **8** Clearance: Full raise at maximum length | 6750 | (22'2") | 7130 | (23'5") | 6905 | (22'8") | 7415 | (24'4") |
| **9** Reach: Level position at fixed tab | 3065 | (10'1") | 3588 | (11'9") | 3051 | (10'0") | 3658 | (12'0") |
| **10** Reach: Level position at minimum length | 3444 | (11'4") | 3967 | (13'0") | 3430 | (11'3") | 4037 | (13'3") |
| **11** Reach: Level position at mid position | 4099 | (13'5") | 4622 | (15'2") | 4085 | (13'5") | 4692 | (15'5") |
| **12** Reach: Level position at maximum length | 4754 | (15'7") | 5277 | (17'4") | 4740 | (15'7") | 5347 | (17'7") |
| **13** Clearance: Level position | 2514 | (8'3") | 2514 | (8'3") | 2615 | (8'7") | 2615 | (8'7") |
| **14** Length: Front of tire to back of machine | 5737 | (18'10") | 5737 | (18'10") | 5824 | (19'1") | 5824 | (19'1") |
| | kg | (lb) | kg | (lb) | kg | (lb) | kg | (lb) |
| Operating Weight | 13 616 | (30,018) | 13 716 | (30,239) | 16 521 | (36,423) | 16 830 | (37,104) |
| Rated load* (50% of full turn tip** SAE J1197) | | | | | | | | |
| Fixed tab (9) | 2634 | (5,807) | 2221 | (4,896) | 3301 | (7,277) | 2711 | (5,977) |
| Minimum extension (10) | 2382 | (5,251) | 2046 | (4,511) | 3010 | (6,636) | 2503 | (5,518) |
| Middle extension (11) | 1779 | (3,922) | 1757 | (3,874) | 2456 | (5,415) | 2198 | (4,846) |
| Maximum extension (12) | 1411 | (3,111) | 1393 | (3,071) | 1957 | (4,314) | 1959 | (4,319) |

*Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculation and testing.

**Full compliance to EN474-3 and SAE J1197.

# 930/938 Ag Handler Specifications

## Optional Equipment

| | 930 Ag Handler | | | | 938 Ag Handler | | | |
|---|---|---|---|---|---|---|---|---|
| | Operating Weight | | Tipping Load – Full Turn | | Operating Weight | | Tipping Load – Full Turn | |
| **Change with options removed:** | **kg** | **lb** | **kg** | **lb** | **kg** | **lb** | **kg** | **lb** |
| Heavy counterweight | –324 | –715 | –523 | –1153 | –324 | –715 | –518 | –1141 |
| Aggregate counterweight | N/A | N/A | N/A | N/A | –299 | –659 | –416 | –918 |
| Autolube system | –47 | –105 | –14 | –30 | –47 | –105 | –14 | –30 |
| Ride control | –31 | –69 | –10 | –22 | –31 | –69 | –10 | –23 |
| Secondary steering | –32 | –71 | –27 | –59 | –33 | –73 | –27 | –61 |
| Roading fenders | –16 | –35 | –22 | –49 | –15 | –33 | –21 | –47 |
| Windshield access steps | –25 | –54 | –11 | –25 | –25 | –54 | –11 | –25 |
| 3rd function implement valve | –18 | –40 | –4 | –9 | –18 | –40 | –4 | –9 |
| **Change with options added:** | **kg** | **lb** | **kg** | **lb** | **kg** | **lb** | **kg** | **lb** |
| Aggregate counterweight | +299 | +659 | +420 | +926 | N/A | N/A | N/A | N/A |
| Guard, driveshaft | +43 | +96 | +12 | +26 | +45 | +99 | +12 | +26 |
| Guard, powertrain lower | +67 | +148 | +61 | +136 | +67 | +148 | +61 | +135 |
| Guard, rear radiator | +258 | +568 | +467 | +1030 | +279 | +615 | +500 | +1102 |
| Joystick steering (requires secondary) | +79 | +175 | +73 | +161 | +78 | +172 | +72 | +158 |
| Cold start package | +64 | +140 | +87 | +193 | +66 | +145 | +89 | +197 |
| Guard, front window | +51 | +113 | +28 | +63 | +51 | +113 | +28 | +63 |
| 4th function implement valve | +17 | +37 | +2 | +5 | +17 | +37 | +3 | +6 |
| Guard, crankcase | +10 | +23 | +14 | +30 | +10 | +23 | +14 | +30 |
| Guard, hitch | +21 | +47 | +14 | +32 | +21 | +47 | +14 | +32 |
| Toolbox | +18 | +40 | +18 | +39 | +18 | +40 | +18 | +39 |

## Tire Options

| | 930 Ag Handler | | | | | | 938 Ag Handler | |
|---|---|---|---|---|---|---|---|---|
| **Change with tire option as compared to 20.5R25 XHA2 (930) or 23.5R25 XHA2 (938) Tire** | **20.5-25 20PR LM L-3** | | **620/75 R26 MegaX** | | **750/65 R26 MegaX** | | **750/65 R26 MegaX** | |
| | **mm** | **in** | **mm** | **in** | **mm** | **in** | **mm** | **in** |
| Vertical heights | +4 | +0.1" | +23 | +0.9" | +75 | +3.0" | +10 | +0.4" |
| Reach: Bucket at 45° | –10 | –0.4" | –57 | –2.3" | –67 | –2.6" | –4 | –0.2" |
| Width: Over tires | –22 | –0.9" | +145 | +5.7" | +270 | +10.6" | +30 | +1.2" |
| | **kg** | **lb** | **kg** | **lb** | **kg** | **lb** | **kg** | **lb** |
| Tipping load – straight | –177 | –391 | –142 | –313 | +21 | +46 | –450 | –993 |
| Tipping load – full turn | –157 | –345 | –125 | –276 | +18 | +40 | –398 | –877 |
| Operating weight | –260 | –573 | –208 | –459 | +30 | +67 | –665 | –1,466 |

# STANDARD & OPTIONAL EQUIPMENT

Standard and optional equipment may vary. Consult your Cat dealer for details.

| POWERTRAIN | 930 | 938 |
|---|---|---|
| 1,000 hour service intervals (after initial 500) | ● | ● |
| Air cleaner, dry type | ● | ● |
| Auto engine RPM | ● | ● |
| Auto idle shut down feature | ● | ● |
| Auto rimpull control, adjust wheel torque | ● | ● |
| Axle seal guards | ● | ● |
| Axle, rear, limited slip | ◐ | ◐ |
| Brake, parking, electric | ● | ● |
| Breathers, elevated, axle and powertrain | ◐ | ◐ |
| Cat C7.1 engine | ● | ● |
| Coolant protection to –34° C (–93.2° F) | ● | ● |
| Cooling package, single plane, wide 6 fins per inch | ● | ● |
| Crankcase, filtered, breather | ● | ● |
| Creep control, adjust ground speed | ● | ● |
| Demand cooling fan, hydraulically driven | ● | ● |
| Diesel particulate filter (DPF) | ● | ● |
| Differential lock, auto, in front axle | ○ | ● |
| Differential lock, manual, in front axle | ● | ● |
| Directional shift aggressiveness (fast, medium, slow) | ● | ● |
| Driveshafts, lubed for life | ● | ● |
| Enclosed wet disc full hydraulic brakes | ● | ● |
| Engine pre-cleaner, Sy-Klone | ◐ | ◐ |
| Fuel priming pump, automatic | ● | ● |
| Fuel water separator | ● | ● |
| Operator modes (TC, Hystat, Single Pedal, Ice) | ● | ● |
| Power modes (standard and performance) | ● | ● |
| Selective catalyst reduction | ● | ● |
| Scheduled Oil Sampling (S·O·S℠) port, engine, coolant, transmission oil | ● | ● |
| Transmission, hydrostatic with electronic control | ● | ● |
| Turbocharged and aftercooled | ● | ● |
| 750/65R26 Tire Groups | ◐ | ◐ |
| 620/75R26 Tire Groups | ◐ | ◐ |
| 23.5R25 Tire Groups | ○ | ◐ |
| 20.5R25 L3 Tire Groups | ◐ | ◐ |
| 20.5R25 Snow Tire Groups | ◐ | ◐ |
| 20.5-25 L3 Bias Tire Groups | ◐ | ◐ |

● – standard ◐ – optional ○ – not available

| OPERATOR ENVIRONMENT | 930 | 938 |
|---|---|---|
| Air pre-cleaner, cab powered | ◐ | ◐ |
| Automatic temperature control | ● | ● |
| Beacon, seatbelt, green | ◐ | ◐ |
| Beacon, warning, amber | ◐ | ◐ |
| Cab door release, ground level | ● | ● |
| Cab, enclosed ROPS/FOPS pressurized, sound suppressed | ● | ● |
| Camera, rearview | ● | ● |
| – Camera, front view or multi-view | ◐ | ◐ |
| – Rear Object Detection | ◐ | ◐ |
| Cell phone holder | ◐ | ◐ |
| Column mounted multifunction control lights, wipers, turn signal | ● | ● |
| Cup holders | ● | ● |
| Decals, high visibility, steps, handrails | ◐ | ◐ |
| Display, 8-inch touch screen, with digital gauges | ● | ● |
| Glass, front, tinted | ● | ● |
| Glass, rear window, defrost, electric | ● | ● |
| Glass, sliding on side window | ● | ● |
| Hydraulic control lockout | ● | ● |
| Implement controls, seat mounted, adjustable | ● | ● |
| – Implement controls, joystick | ◐ | ◐ |
| – Implement controls, single axis lever | ◐ | ◐ |
| Jog dial with screen control | ● | ● |
| Joystick, programmable | ● | ● |
| Lighting, cab interior, door | ● | ● |
| Lunch box storage | ● | ● |
| Mirrors, external with lower parabolic (2) | ● | ● |
| – Mirrors, heated, electrically adjust (2) | ◐ | ◐ |
| – Mirrors, internal (2) | ◐ | ◐ |
| Mounting provision | ● | ● |
| Operator Not Present warning and control logic | ● | ● |
| Push to start | ● | ● |
| Reverse strobes, warning, white | ◐ | ◐ |
| Seat, suspension, fabric | ● | ● |
| – Seat, premium or deluxe | ◐ | ◐ |
| Seatbelt, 75 mm (3 in) retractable | ● | ● |
| Security, Bluetooth key fob | ◐ | ◐ |
| Speakers, radio ready | ● | ● |
| – Radio packages | ◐ | ◐ |
| Steering, wheel, tilt | ● | ● |
| – Steering, column, tilt and telescoping | ◐ | ◐ |
| – Steering, joystick, force-feedback | ◐ | ◐ |
| Tire Pressure Monitoring (TPM) | ◐ | ◐ |
| Wiper washer, wet arm, rear and intermittent front | ● | ● |
| Visor, rear | ◐ | ◐ |

● – standard ◐ – optional ○ – not available

## STANDARD & OPTIONAL EQUIPMENT *(continued)*

Standard and optional equipment may vary. Consult your Cat dealer for details.

| HYDRAULICS | 930 | 938 |
|---|---|---|
| Attachment modes, adjustable in-cab | ● | ● |
| Automatic lift and bucket kickouts, adjustable in-cab | ● | ● |
| Auxiliary flow (3rd and 4th) | ◐ | ◐ |
| Cat Payload, 250 hours of demo | ● | ● |
| – Cat Payload enabled | ◐ | ◐ |
| – Cat Payload printer | ◐ | ◐ |
| Cylinder damping at kickout and mechanical end stops | ● | ● |
| Fine mode control (fast, medium, slow) | ● | ● |
| Hydraulic diagnostic connectors and S·O·S ports | ● | ● |
| Hydraulic response setting (fast, medium, slow) | ● | ● |
| Load check valves | ◐ | ◐ |
| Load sensing hydraulics and steering | ● | ● |
| Oil, biodegradable | ◐ | ◐ |
| Reversing fan | ◐ | ◐ |
| Ride control | ◐ | ◐ |
| Seat mounted hydraulic joystick controls | ● | ● |
| Site gauge, visible | ● | ● |
| **LINKAGE** | **930** | **938** |
| Autolube | ◐ | ◐ |
| Counterweight, Aggregate | ◐ | ◐ |
| Counterweight, Heavy | ◐ | ◐ |
| Couplers: Fusion and ISO | ◐ | ◐ |
| High Lift | ◐ | ◐ |
| Lubrication points, remote mounted | ● | ● |
| Parallel lift loader linkage | ● | ● |
| **OTHER** | **930** | **938** |
| Enclosure doors, large-access (3) | ● | ● |
| Lockable compartments | ● | ● |
| Recovery hitch with pin | ● | ● |
| Toolbox | ◐ | ◐ |
| Windshield washing steps | ◐ | ◐ |

● – standard ◐ – optional ○ – not available

| GUARDS | 930 | 938 |
|---|---|---|
| Cab | ◐ | ◐ |
| Crankcase | ◐ | ◐ |
| Driveshaft | ◐ | ◐ |
| Lighting, front and rear | ◐ | ◐ |
| Powertrain, lower and sides | ◐ | ◐ |
| **ELECTRICAL** | **930** | **938** |
| Alarm, back up | ● | ● |
| Alternator, 115-amp, heavy duty | ● | ● |
| – Alternator, brushless, 150 amp | ◐ | ◐ |
| Batteries, 1,000 CCA (2) 24V system, disconnect switch | ● | ● |
| Cold start package with block heater | ◐ | ◐ |
| Emergency shutdown switch | ● | ● |
| Gear reduction starter, heavy duty | ● | ● |
| Lights, roading, front and rear | ● | ● |
| Lights, LED, rear stop and turn | ● | ● |
| – Lights, LED auxiliary | ◐ | ◐ |
| – Lights, LED roading | ◐ | ◐ |
| – Lights, LED, engine and DEF compartment | ◐ | ◐ |
| Power supply, 12V in cab (2) | ● | ● |
| – USB charging ports (2) | ◐ | ◐ |
| Product Link™ Elite | ● | ● |
| – Product Link – Cellular and Satellite | ◐ | ◐ |
| Remote jump start post | ● | ● |
| Resettable main and critical function breakers | ● | ● |
| Secondary steering | ◐ | ◐ |

● – standard ◐ – optional ○ – not available

# Notes

For more complete information on Cat products, dealer services and industry solutions, visit us on the web at www.cat.com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