980H Wheel Loader





| Engine Model | Cat [®] C15 AC | ERT™ | Operating Weight | 29 945 kg | 65,999 lb |
|-------------------------------|--------------------------|----------------------------|--|---------------------|-----------|
| Maximum Net Power (1,800 rpm) | | | • For 5.4 m ³ (7.0 yd ³) general purpos | e bucket with BOCE. | |
| ISO 9249/SAE J1349 (metric) | 264 kW | 359 hp | | | |
| ISO 9249/SAE J1349 (imperial) | 264 kW | 354 hp | | | |
| Bucket Capacities | 4.31-8.20 m ³ | 5.64-10.73 yd ³ | | | |

Key Features

Performance Series Buckets

The new Performance Series buckets are easier to load, achieve greater fill factors and retain more material for significantly greater productivity and fuel efficiency.

Cab and Controls

The cab has been updated for unmatched comfort and efficiency. A new center display combines the Electronic Monitoring System with the gauge cluster. The analog-like gauges have green and red zone indicators so operators can easily see if machine systems are within operating range. The right hand door is replaced with a window which is vertically split for easy opening and closing. Command Control Steering is low effort keeping the operator comfortable during the work day.

Transmission Improvements

The legendary Cat planetary power shift transmission is updated to provide faster acceleration, speed up ramps and greater operator comfort due to smoother shifting.

Constant Net Horsepower

The Cat C15 engine is electronically configured to provide constant net horsepower at full parasitic load, enhancing productivity and improving fuel efficiency.

Proven Reliability/Durability

Components are manufactured to Caterpillar quality standards to ensure maximum performance and reduce the risk of premature wear increasing uptime and reduce operating costs over the life of the machine.



Contents



The 980H delivers performance you can feel in the most demanding applications. These machines offer unmatched operator comfort and efficiency in a world-class cab. New Performance Series buckets deliver decreased dig times, greater fill factors and superior material retention to increase productivity and reduce fuel consumption. Revolutionary electro-hydraulic (EH) provide low-effort fingertip operation of lift, tilt and auxiliary work tool controls. The reliability and durability of the 980H results in a machine that is better built to meet your needs.

Reliability Tested and Proven – Ready to Work.



Caterpillar Designed Components

Components used to build Cat Wheel Loaders are designed and manufactured to Caterpillar quality standards to ensure maximum performance even in extreme operating conditions. Heavy duty components reduce the risk of premature wear thereby increasing uptime and reduce operating costs over the life of the machine.

Monitoring Programs

Monitoring product health is key to maintaining reliability of any equipment. Many programs offered by your Cat dealer make the tracking of your machine health quick and easy. These programs include Product Link™*, VisionLink®, and S·O·SSM Services.

Renowned Cat Dealer Support

From helping you choose the right machine to knowledgeable support, Cat dealers provide the best when it comes to sales and service. Manage costs with preventive maintenance programs like Scheduled Oil Sampling (S·O·S) analysis or comprehensive Customer Support Agreements. Stay productive with best-in-class parts availability. Cat dealers can even help you with operator training to help boost your profits. And when it's time for machine rebuild, your Cat dealer can help you save even more with Genuine Cat Reman parts, which have the same reliability and warranty as new parts at 40 to 70 percent of the new parts prices on power train and hydraulic parts.

Structures

The H Series features many components which leverage product designs that have delivered reliable and durable machines for generations.

* Not all programs are available in all areas. See your Cat dealer for details.





Z-Bar Linkage

The proven Z-bar linkage with Performance Series Buckets offer excellent penetration into the pile, high breakout forces, good roll back angles and faster dig times. The results are improved tire life, superior fuel efficiency and exceptional production capabilities; all helping to enable a sustainable solution for your business.

C15 ACERT Engine

The Cat C15 engine with ACERT Technology maintains engine performance, efficiency and durability while dramatically reducing emissions. Electronic fuel injection is provided through the well-proven Caterpillar mechanically actuated, electronically controlled unit injection (MEUI) system. A wastegate turbocharger, equipped with a titanium wheel for improved durability, combined with air-to-air aftercooling provides consistent high horsepower with increased altitude capability.

Axles

The axles are designed to handle extreme applications resulting in reliable performance and extended life. The front axle is rigidly mounted to the frame in order to withstand internal torque loads and still maintain support for the wheel loader. The rear axle can oscillate to ± 13 degrees helping to ensure all four wheels stay on the ground providing stability even in the roughest terrain.

Productivity Work Smart and Move More.







Transmission

The legendary Cat planetary power shift transmission is updated with new shift logic. The downshift from 2 to 1 forward is now based upon torque requirements versus ground speed. This enables operators to use the fully automatic 1-4 mode which saves fuel and improves productivity and comfort. Speed shifts, both up shifts and downshifts have been dramatically improved for improved acceleration, speed on ramps and operator comfort.

Constant Net Horsepower

The Cat C15 engine is electronically configured to provide constant net horsepower at full parasitic load, enhancing productivity and improving fuel efficiency.

On-Demand Fan

With electronic control of the variable speed on-demand fan, temperature levels of the engine coolant, transmission oil, hydraulic oil and air inlet manifold are constantly monitored. This data is used to control and maintain fan speed at the level necessary to maintain normal system temperatures. Controlled fan speed improves fuel efficiency, lowers noise levels and reduces radiator plugging.

Ride Control

The optional Ride Control System improves ride, performance and load retention when traveling over rough terrain. Operators gain confidence moving at higher speeds in load and carry operations decreasing cycle times and increasing productivity. Ride Control also reduces loads induced by travel over rough terrain and can extend the life of structures and drive line components.

Engine Idle Management System

The Engine Idle Management System (EIMS) maximizes fuel efficiency by reducing engine rpm after a selected amount of time. This gives customers flexibility in managing idle speeds for specific application requirements. Four idle control rpm levels are available.

Engine Idle Shutdown

The Engine Idle Shutdown feature automatically shuts down the engine after the machine has been idling for a predetermined amount of time. This saves you fuel and reduces hour accumulation on your machine.







Visibility

Visibility is excellent to both the front and rear of this machine. Distortion-free flat glass stretches to the floor of the cab for excellent visibility to the bucket. The cab roof has channels which direct rain off the corners of the cab keeping windows clear. An overhang on all sides of the cab protects the operator from glare. An optional rearview camera is available to clearly monitor movement behind the machine.

Entry and Exit

A ladder with self-cleaning steps keeps debris build-up to a minimum. The ladder is inclined for easy entry and exit. Platforms are wide allowing ease of movement to the front or rear of the machine. The cab door opens a full 180° and latches in place to allow safe navigation to the rear of the machine. A vertically split window on the right-hand side of the cab is provided for easy opening and closing.

Cab and Controls

The cab design has been updated for unmatched comfort and efficiency. A new center display combines the Electronic Monitoring System with the gauge cluster, giving the operator all machine operating information in one location. The analog-like gauges have green and red zone indicators so operators can easily see if machine systems are within operating range.

Seat and Armrest

The new seat is wider and the headrest is now adjustable for improved operator comfort. It provides automotive-style lumbar support for maximum comfort. The right hand armrest has been optimized for easier adjustment.

Command Control Steering

Command Control Steering is a low effort load-sensing system. Full machine articulation is accomplished with a $\pm 70^{\circ}$ turn of the wheel – versus two to three 360° turns of a conventional steering wheel greatly reducing operator fatigue. Steering grip contains the forward/neutral/reverse switch and the upshift/downshift button – allowing the left hand to remain on the steering grip at all times.



Versatility Work Tool Options to Meet Your Needs.



Work Tools for Many Job Site Requirements

A range of work tools and bucket styles are available to customize the machine for your operation. The list includes: Performance Series Buckets; Specialty Buckets (Heavy Duty Quarry Rock, Slag, Waste Handling, Woodchip); Pallet Forks, Millyard and Logging Forks.

Performance Series Buckets: Load Easy, Fuel Efficient, Carry More

Performance Series Buckets utilize a system-based approach to balance bucket shape with the machine's linkage, weight, lift and tilt capacities. Operators benefit from reduced dig times and better material retention; ultimately translating into significant productivity and fuel efficiency improvements.

Lower Operating Costs

Performance Series Buckets feature a longer floor that easily digs through the pile and provides excellent visibility for the operators to see when the bucket is full. Less time digging in the pile results in lower fuel consumption and improved tire life. A unique spill guard protects the cab and linkage components from material overflow.

Higher Productivity

Performance Series Buckets achieve higher fill factors – ranging from 100% to 115% depending on the machine application and material type. The buckets feature optimized geometry with a bucket opening matched to the machine's linkage and incorporate a curved side profile to maximize material retention. The optimized design results in unsurpassed production capabilities.

Performance Series Bucket Styles

Performance Series Buckets are available for General Purpose, Heavy Duty General Purpose, Material Handling, Rock and Coal style buckets.

Daily Maintenance

Sight gauges and ground level service points are easily accessible improving safety and reducing service time.

Ground level access to maintenance points reduces daily start-up time, ensures that daily maintenance gets done and reduces operator fatigue from climbing on the machine to do daily checks.

Service is simplified with brake wear indicators, ecology drains, grouped sampling ports and easily replaceable components.



Serviceability Easy to Maintain. Easy to Service.





Cooling System

The cooling system is readily accessible for clean out and maintenance. With nine cooling fins per 25.4 mm (1.0 inch) and a perforated grill, most airborne debris entering the system passes through the cooler cores. The hydraulic and A/C cooler cores swing out providing easy access to both sides for cleaning. An access panel on the left side of the cooling package swings down to provide access to the back side of the engine coolant and Air-to-Air After Cooler (ATAAC) and jacket water cooler core.

Engine Access

The Cat sloped "one-piece" tilting hood provides industryleading access to the engine, and if necessary, the entire hood can be removed with the built-in lift points. With the hood closed, quick checks of engine oil levels and the coolant sight gauge can be completed through the side service doors. Panels located behind the tires lift up and can be removed for additional access.



Customer Support Unmatched Support Makes the Difference.

Machine Selection

Your Cat dealer is ready to help you evaluate machine options. From new or used machine sales, to rental or rebuild options, your Cat dealer can provide an optimal solution to your business needs.

Product Support

Your Cat dealer can help you maximize machine uptime with unsurpassed worldwide parts availability, trained technicians and customer support agreements.

Operation

To help you get the most out of your machine investment, Cat dealers offer various training resources to improve operating techniques.

Financing

Financing options are available to meet your needs.

Sustainability Conserving Resources.

The 980H is designed to compliment your business plan, reduce emissions and minimize the consumption of natural resources.

- Improved fuel efficiency less fuel consumed results in lower emissions.
- The 980H is built with a 98% recyclability rate (ISO 16714) to conserve valuable natural resources and further enhance machine end of life value.
- Improved operator efficiency through enhanced visibility and reduced noise/vibration levels.
- Product Link family of products and solutions that collect, communicate, store and deliver product and job site information to maximize productivity and reduce costs.
- Major components are rebuildable, eliminating waste and saving money by giving the machine and/or major components a second life and even a third life.



Engine

| Engine Model | Cat C15 ACERT | |
|--|---------------|---------------------|
| Net Power – ISO 9249/SAE J1349 (metric) | 264 kW | 359 hp |
| Net Power – ISO 9249/SAE J1349 (imperial) | 264 kW | 354 hp |
| Gross Power – ISO 14396 | 288 kW | 387 hp |
| Gross Power – SAE J1995 | 293 kW | 393 hp |
| Peak Net Torque – ISO 14396 @ 1,200 rpm | 1779 N·m | 1,312 lbf-ft |
| Bore | 137 mm | 5.4 in |
| Stroke | 171 mm | 6.7 in |
| Displacement | 15.2 L | 928 in ³ |

• Caterpillar engine with ACERT Technology – EPA Tier 3, EU Stage III Compliant.

- These ratings apply at 1,800 rpm when tested under the specified standard conditions.
- Rating for net power advertised based on power available when the engine is equipped with alternator, air cleaner, muffler and on-demand hydraulic fan drive at maximum fan speed.
- The horsepower (hp) provided is imperial horsepower.

Weights

| 29 945 kg | 65.999 lb |
|-----------|-----------|

• For 5.4 m³ (7.0 yd³) general purpose bucket with BOCE.

Buckets

| Bucket | Capacities |
|----------|------------|
| 20001100 | capacities |

Operating Weight

4.31-8.20 m³ 5.64-10.73 yd³

| Operating Specifications | | |
|--------------------------------------|-----------|-----------|
| Breakout Force | 201 kN | 45,379 lb |
| Static Tipping Load, Full Turn (ISO) | 17 895 kg | 39,441 lb |
| Static Tipping Load, Full Turn | 19 764 kg | 43,561 lb |

(No Tire Deflection)

• For 5.4 m³ (7.0 yd³) general purpose bucket with BOCE.

Transmission

| Forward 1 | 6.6 km/h | 4.1 mph |
|-----------|-----------|----------|
| Forward 2 | 11.8 km/h | 7.3 mph |
| Forward 3 | 20.7 km/h | 12.9 mph |
| Forward 4 | 36.3 km/h | 22.6 mph |
| Reverse 1 | 7.6 km/h | 4.7 mph |
| Reverse 2 | 13.5 km/h | 8.4 mph |
| Reverse 3 | 23.6 km/h | 14.7 mph |
| Reverse 4 | 41.5 km/h | 25.8 mph |

• Maximum travel speeds (29.5-25 tires).

Hydraulic System

| Bucket/Work Tool System – | 464 L/min | 123 gal/min |
|------------------------------|-------------|-------------|
| Pump Output | | |
| Steering System Pump Type | Piston | |
| Hydraulic Cycle Time – Raise | 6.5 Seconds | |
| Hydraulic Cycle Time – Dump | 2.5 Seconds | |
| Hydraulic Cycle Time – Lower | 3.5 Seconds | |
| Hydraulic Cycle Time – Float | 3 Seconds | |
| Hydraulic Cycle Time – Rack | 3 Seconds | |

• Implement System (Standard), Piston Pump – Rated at 2,100 rpm and 6900 kPa (1,000 psi).

• Cycle time with rated payload.

Brakes

Brakes

Meets required standards.

• Meet ISO 3450-2011 standards.

Axles

| Front | Fixed front | |
|------------------------------------|---------------|---------|
| Rear | Oscillating ± | 13° |
| Maximum Single-Wheel Rise and Fall | 550 mm | 21.7 in |

Tires

| IIICS | |
|---|---|
| Tires | Choose from a variety of tires to match your application. |
| • Choice of: 29 5R 25 TB516 TR L3 | |
| 29.5R25 22PR TR L3 | |
| 29.5R25 VMT BS L3 29.5-25 28PR L3 | |
| 29.5R25 XHA2 MX L3 29.5R25 VIT BS L3 | |
| 29.5-25 28PR BS L4 | |
| 29.5R25 VSDL BS L5 29.5R25 XLDD2 MX L5 | |
| • NOTE: In certain applications | (such as load and carry) the loade |

• NOTE: In certain applications (such as load and carry) the loader's productive capabilities might exceed the tires' tonnes-km/h (ton-mph) capabilities. Caterpillar recommends that you consult a tire supplier to evaluate all conditions before selecting a tire model. Other special tires are available on request.

Meets ISO Standards.

Cab

ROPS/FOPS

• Caterpillar cab with integrated Rollover Protective Structure (ROPS) are standard.

• ROPS meets ISO 3471:2008 criteria.

• Falling Objects Protective Structure (FOPS) meets ISO 3449:2005 Level II.

Sound

- The sound values indicated below are for specific operating conditions only. Machine and operator sound levels will vary at different engine and/or cooling fan speeds. The cab was properly installed and maintained. The tests were conducted with the cab doors and the cab windows closed. Hearing protection may be needed when the machine is operated with a cabin that is not properly maintained, or when the doors and/or windows are open for extended periods or in a noisy environment.
- The declared dynamic operator sound pressure level for a standard machine configuration, measured according to the procedure specified in "ISO 6396:2008" is 75 dB(A) with the cooling fan speed set at maximum value.
- The declared dynamic exterior sound power level for a standard machine configuration, measured according to the procedures specified in "ISO 6395:2008" is 113 dB(A) with the cooling fan speed set at maximum value.
- The declared average exterior sound pressure level for a standard machine configuration, measured according to the procedure specified in "SAE J88:2013 Constant Speed Moving Test," is 77 dB(A). The measurement was conducted under the following conditions: distance of 15 m (49.2 ft), moving forward in second gear ratio with the cooling fan speed set at maximum value.

Sound Level Information for Machines in European Union Countries and in Countries that Adopt the "EU Directives"

- The declared dynamic operator sound pressure level for a standard machine configuration, measured according to the procedures specified in "ISO 6396:2008," is 72 dB(A) with a cooling fan speed set at 70 percent of the maximum value.
- The sound power level that is labeled on the machine is 109 Lwa. The measurement was made according to the test procedures and conditions that are specified in the European Union Directive "2000/14/EC" as amended by "2005/88/EC."

Service Refill Capacities

| 453 L | 120 gal |
|-------|--------------------------------------|
| 83 L | 22 gal |
| 64 L | 17 gal |
| 62 L | 16 gal |
| 87 L | 23 gal |
| 87 L | 23 gal |
| 125 L | 33 gal |
| | 83 L 64 L 62 L 87 L 87 L |

980H Dimensions

All dimensions are approximate and based on L3 Michelin XHA2 tires.



| 1 Height to top of ROPS/FOPS | 3776 mm | 12'4" |
|---|------------|-------|
| 2 Height to top of exhaust pipe | 3714 mm | 12'2" |
| 3 Height to top of hood | 2721 mm | 8'9" |
| 4 Ground clearance with 29.5R25 | 430 mm | 1'5" |
| 5 B-Pin height – standard | 4509 mm | 14'8" |
| B-Pin height – high-lift | 4729 mm | 15'6" |
| 6 Center line of rear axle to edge of counterweight | 2615 mm | 8'6" |
| 7 Wheelbase | 3700 mm | 12'2" |
| 8 B-Pin height @ carry – standard | 644 mm | 2'1" |
| B-Pin height @ carry – high lift | 700 mm | 2'3" |
| 9 Center line of rear axle to hitch | 1850 mm | 6'1" |
| 10 Rack back @ maximum lift | 61 degrees | |
| 11 Dump angle @ maximum lift | 48 degrees | |
| 12 Rack back @ carry | 49 degrees | |
| 13 Rack back @ ground – standard | 41 degrees | |
| Rack back @ ground – high lift | 39 degrees | |
| 14 Height to center line of axle | 855 mm | 2'8" |
| 15 Lift arm clearance @ maximum lift | 3764 mm | 12'4" |
| | | |

980H Operating Specifications – Standard

| Bucket Type | General Purpose – Pin On | | | | | | | | | | |
|---|--------------------------|------------------|-----------------------|------------------|-----------------------|------------------|-----------------------|--|--|--|--|
| Edge Type | | Bolt-On Edges | Teeth and Segments | Bolt-On Edges | Teeth and Segments | Bolt-On Edges | Teeth and Segments | | | | |
| Capacity – Rated (§) | m ³ | 5.40 | 5.40 | 5.70 | 5.70 | 6.00 | 6.00 | | | | |
| | yd ³ | 7.06 | 7.06 | 7.46 | 7.46 | 7.85 | 7.85 | | | | |
| Capacity - Rated @ 110% Fill Factor | m ³ | 5.94 | 5.94 | 6.27 | 6.27 | 6.60 | 6.60 | | | | |
| | yd ³ | 7.77 | 7.77 | 8.20 | 8.20 | 8.63 | 8.63 | | | | |
| Width (§) | mm | 3447 | 3535 | 3447 | 3535 | 3447 | 3535 | | | | |
| | ft/in | 11'3" | 11'7" | 11'3" | 11'7" | 11'3" | 11'7" | | | | |
| Dump Clearance at Maximum Lift and 45° Discharge (§) | mm | 3242 | 3077 | 3174 | 3007 | 3156 | 2989 | | | | |
| | ft/in | 10'7" | 10'1" | 10'4" | 9'10" | 10'4" | 9'9" | | | | |
| Reach at Maximum Lift and 45° Discharge (§) | mm | 1580 | 1717 | 1628 | 1762 | 1649 | 1784 | | | | |
| | ft/in | 5'2" | 5'7" | 5'4" | 5'9" | 5'4" | 5'10" | | | | |
| Reach at Level Lift Arm and Bucket Level (§) | mm | 3064 | 3276 | 3148 | 3360 | 3176 | 3388 | | | | |
| | ft/in | 10'0" | 10'8" | 10'3" | 11'0" | 10'5" | 11'1" | | | | |
| Digging Depth (§) | mm | 133 | 133 | 133 | 133 | 133 | 133 | | | | |
| | in | 5.2" | 5.2" | 5.2" | 5.2" | 5.2" | 5.2" | | | | |
| Overall Length | mm | 9637 | 9878 | 9721 | 9962 | 9749 | 9990 | | | | |
| | ft/in | 31'8" | 32'5" | 31'11" | 32'9" | 32'0" | 32'10" | | | | |
| Overall Height with Bucket at Maximum Lift | mm | 6391 | 6391 | 6213 | 6213 | 6239 | 6239 | | | | |
| | ft/in | 21'0" | 21'0" | 20'5" | 20'5" | 20'6" | 20'6" | | | | |
| Loader Clearance Circle with Bucket at Carry Position (§) | mm | 15 857 | 16 080 | 15 902 | 16 125 | 15 917 | 16 141 | | | | |
| | ft/in | 52'1" | 52'10" | 52'3" | 52'11" | 52'3" | 53'0" | | | | |
| Static Tipping Load, Straight (ISO)* | kg | 20 504 | 20 322 | 20 272 | 20 089 | 20 1 36 | 19 952 | | | | |
| | lb | 45,192 | 44,790 | 44,681 | 44,277 | 44,379 | 43,974 | | | | |
| Static Tipping Load, Straight (Rigid Tire)* | kg | 22 086 | 21 900 | 21 855 | 21 667 | 21 719 | 21 531 | | | | |
| | lb | 48,678 | 48,268 | 48,168 | 47,755 | 47,870 | 47,456 | | | | |
| Static Tipping Load, Articulated (ISO)* | kg | 17 895 | 17 710 | 17 677 | 17 492 | 17 544 | 17 358 | | | | |
| | lb | 39,441 | 39,035 | 38,961 | 38,552 | 38,667 | 38,257 | | | | |
| Static Tipping Load, Articulated (Rigid Tire)* | kg | 19 764 | 19 578 | 19 546 | 19 358 | 19 414 | 19 226 | | | | |
| | lb | 43,561 | 43,150 | 43,079 | 42,666 | 42,789 | 42,375 | | | | |
| Breakout Force** (§) | kN | 201 | 199 | 190 | 188 | 186 | 184 | | | | |
| | lbf | 45,379 | 44,838 | 42,792 | 42,264 | 41,931 | 41,407 | | | | |
| Operating Weight* | kg | 29 945 | 30 084 | 30 028 | 30 167 | 30 124 | 30 263 | | | | |
| | lb | 65,999 | 66,304 | 66,182 | 66,487 | 66,393 | 66,698 | | | | |

* Static tipping loads and operating weights shown are based on a global machine configuration with Michelin 29.5R25 XHA2 L3 Radial tires, full fluids, operator, standard counterweight, standard (not Heavy Duty) transmission, standard linkage, cold start, roading fenders, Product Link, open differential axles (front/rear), power train guard, secondary steering, sound suppression and 5.4 m³ GP bucket with BOCE.

** Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

(ISO) Full compliance to ISO 14397-1 (2007) Sections 1 thru 6, which requires 2% verification between calculations and testing.

980H Operating Specifications – Standard

| Bucket Type | | Handling – n On | | ck — 1 On | Coal – Pin On | | Purpose/ ty – Pin On | |
|---|-----------------|--------------------|-----------------------|------------------|-----------------------|------------------|-------------------------|-----------------------|
| Edge Type | | Bolt-On Edges | Teeth and Segments | Bolt-On Edges | Teeth and Segments | Bolt-On Edges | Bolt-On Edges | Teeth and Segments |
| Capacity – Rated (§) | m ³ | 5.70 | 5.70 | 4.40 | 4.40 | 8.20 | 5.70 | 5.70 |
| | yd ³ | 7.46 | 7.46 | 5.75 | 5.75 | 10.73 | 7.46 | 7.46 |
| Capacity – Rated @ 110% Fill Factor | m ³ | 6.27 | 6.27 | 4.84 | 4.84 | 9.02 | 6.27 | 6.27 |
| | yd ³ | 8.20 | 8.20 | 6.33 | 6.33 | 11.80 | 8.20 | 8.20 |
| Width (§) | mm | 3447 | 3535 | 3504 | 3504 | 3638 | 3447 | 3535 |
| | ft/in | 11'3" | 11'7" | 11'5" | 11'5" | 11'11" | 11'3" | 11'7" |
| Dump Clearance at Maximum Lift and 45° Discharge (§) | mm | 3075 | 2898 | 3101 | 3101 | 2887 | 3174 | 3007 |
| | ft/in | 10'1" | 9'6" | 10'2" | 10'2" | 9'5" | 10'4" | 9'10" |
| Reach at Maximum Lift and 45° Discharge (§) | mm | 1543 | 1665 | 1844 | 1844 | 1724 | 1628 | 1762 |
| | ft/in | 5'0" | 5'5" | 6'0" | 6'0" | 5'7" | 5'4" | 5'9" |
| Reach at Level Lift Arm and Bucket Level (§) | mm | 3173 | 3385 | 3360 | 3360 | 3435 | 3148 | 3360 |
| | ft/in | 10'4" | 11'1" | 11'0" | 11'0" | 11'3" | 10'3" | 11'0" |
| Digging Depth (§) | mm | 133 | 133 | 106 | 106 | 138 | 133 | 133 |
| | in | 5.2" | 5.2" | 4.1" | 4.1" | 5.4" | 5.2" | 5.2" |
| Overall Length | mm | 9746 | 9987 | 9949 | 9949 | 10 011 | 9721 | 9962 |
| | ft/in | 32'0" | 32'10" | 32'8" | 32'8" | 32'11" | 31'11" | 32'9" |
| Overall Height with Bucket at Maximum Lift | mm | 6212 | 6212 | 6184 | 6184 | 6506 | 6213 | 6213 |
| | ft/in | 20'5" | 20'5" | 20'4" | 20'4" | 21'5" | 20'5" | 20'5" |
| Loader Clearance Circle with Bucket at Carry Position (§) | mm | 15 916 | 16 139 | 16 094 | 16 093 | 16 236 | 15 902 | 16 125 |
| | ft/in | 52'3" | 53'0" | 52'10" | 52'10" | 53'4" | 52'3" | 52'11" |
| Static Tipping Load, Straight (ISO)* | kg | 19 825 | 19 643 | 21 253 | 21 285 | 19 512 | 20 116 | 19 932 |
| | lb | 43,694 | 43,295 | 46,843 | 46,913 | 43,006 | 44,336 | 43,932 |
| Static Tipping Load, Straight (Rigid Tire)* | kg | 21 360 | 21 175 | 22 897 | 22 940 | 21 151 | 21 694 | 21 507 |
| | lb | 47,078 | 46,670 | 50,466 | 50,560 | 46,616 | 47,815 | 47,402 |
| Static Tipping Load, Articulated (ISO)* | kg | 17 271 | 17 088 | 18 537 | 18 550 | 16 932 | 17 519 | 17 334 |
| | lb | 38,067 | 37,663 | 40,857 | 40,884 | 37,318 | 38,613 | 38,204 |
| Static Tipping Load, Articulated (Rigid Tire)* | kg | 19 091 | 18 906 | 20 482 | 20 509 | 18 854 | 19 385 | 19 198 |
| | lb | 42,078 | 41,670 | 45,144 | 45,202 | 41,556 | 42,726 | 42,313 |
| Breakout Force** (§) | kN | 187 | 184 | 190 | 189 | 157 | 189 | 187 |
| | lbf | 42,029 | 41,504 | 42,739 | 42,551 | 35,358 | 42,665 | 42,136 |
| Operating Weight* | kg | 30 1 5 3 | 30 292 | 31 109 | 31 184 | 30 532 | 30 175 | 30 313 |
| | lb | 66,457 | 66,762 | 68,564 | 68,730 | 67,293 | 66,504 | 66,809 |

* Static tipping loads and operating weights shown are based on a global machine configuration with Michelin 29.5R25 XHA2 L3 Radial tires, full fluids, operator, standard counterweight, standard (not Heavy Duty) transmission, standard linkage, cold start, roading fenders, Product Link, open differential axles (front/rear), power train guard, secondary steering, sound suppression and 5.4 m³ GP bucket with BOCE.

** Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

(ISO) Full compliance to ISO 14397-1 (2007) Sections 1 thru 6, which requires 2% verification between calculations and testing.

980H Operating Specifications – Standard

| Bucket Type | Rock – Pin On | | | | | | | | | | |
|---|-----------------|--|------------------------------|--|------------------------------|------------------------------|--|--|--|--|--|
| Edge Type | | Teeth and Segments + Side Protector | Teeth + Side Protector | Teeth and Segments + Side Protector | Teeth + Side Protector | Teeth + Side Protector | | | | | |
| Capacity – Rated (§) | m ³ | 4.48 | 4.31 | 5.66 | 5.38 | 5.38 | | | | | |
| | yd ³ | 5.86 | 5.64 | 7.40 | 7.03 | 7.03 | | | | | |
| Capacity – Rated @ 110% Fill Factor | m ³ | 4.93 | 4.75 | 6.22 | 5.91 | 5.91 | | | | | |
| | yd ³ | 6.45 | 6.21 | 8.14 | 7.74 | 7.74 | | | | | |
| Width (§) | mm | 3504 | 3504 | 3504 | 3504 | 3510 | | | | | |
| | ft/in | 11'5" | 11'5" | 11'5" | 11'5" | 11'6" | | | | | |
| Dump Clearance at Maximum Lift and 45° Discharge (§) | mm | 3051 | 3051 | 2890 | 2890 | 2983 | | | | | |
| | ft/in | 10'0" | 10'0" | 9'5" | 9'5" | 9'9" | | | | | |
| Reach at Maximum Lift and 45° Discharge (§) | mm | 1788 | 1788 | 1979 | 1979 | 1930 | | | | | |
| | ft/in | 5'10" | 5'10" | 6'5" | 6'5" | 6'4'' | | | | | |
| Reach at Level Lift Arm and Bucket Level (§) | mm | 3359 | 3359 | 3608 | 3608 | 3512 | | | | | |
| | ft/in | 11'0" | 11'0" | 11'10" | 11'10" | 11'6" | | | | | |
| Digging Depth (§) | mm | 106 | 71 | 106 | 71 | 77 | | | | | |
| | in | 4.1" | 2.8" | 4.1" | 2.8" | 3" | | | | | |
| Overall Length | mm | 9948 | 9948 | 10 197 | 10 197 | 10 069 | | | | | |
| | ft/in | 32'8" | 32'8" | 33'6" | 33'6" | 33'1" | | | | | |
| Overall Height with Bucket at Maximum Lift | mm | 6204 | 6204 | 6378 | 6378 | 6378 | | | | | |
| | ft/in | 20'5" | 20'5" | 21'0" | 21'0" | 21'0" | | | | | |
| Loader Clearance Circle with Bucket at Carry Position (§) | mm | 16 093 | 16 093 | 16 235 | 16 235 | 16 156 | | | | | |
| | ft/in | 52'10" | 52'10" | 53'4" | 53'4" | 53'1" | | | | | |
| Static Tipping Load, Straight (ISO)* | kg | 20 998 | 21 519 | 20 119 | 20 693 | 20 705 | | | | | |
| | lb | 46,279 | 47,428 | 44,343 | 45,607 | 45,635 | | | | | |
| Static Tipping Load, Straight (Rigid Tire)* | kg | 22 649 | 23 190 | 21 764 | 22 361 | 22 374 | | | | | |
| | lb | 49,918 | 51,112 | 47,968 | 49,285 | 49,313 | | | | | |
| Static Tipping Load, Articulated (ISO)* | kg | 18 265 | 18 775 | 17 439 | 17 995 | 18 008 | | | | | |
| | lb | 40,257 | 41,381 | 38,436 | 39,663 | 39,690 | | | | | |
| Static Tipping Load, Articulated (Rigid Tire)* | kg | 20 223 | 20 750 | 19 387 | 19 965 | 19 977 | | | | | |
| | lb | 44,572 | 45,733 | 42,730 | 44,003 | 44,031 | | | | | |
| Breakout Force** (§) | kN | 188 | 204 | 159 | 172 | 184 | | | | | |
| | lbf | 42,289 | 45,879 | 35,932 | 38,725 | 41,402 | | | | | |
| Operating Weight* | kg | 31 475 | 31 175 | 31 821 | 31 521 | 31 517 | | | | | |
| | lb | 69,370 | 68,709 | 70,132 | 69,471 | 69,463 | | | | | |

* Static tipping loads and operating weights shown are based on a global machine configuration with Michelin 29.5R25 XHA2 L3 Radial tires, full fluids, operator, standard counterweight, standard (not Heavy Duty) transmission, standard linkage, cold start, roading fenders, Product Link, open differential axles (front/rear), power train guard, secondary steering, sound suppression and 5.4 m³ GP bucket with BOCE.

** Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

(ISO) Full compliance to ISO 14397-1 (2007) Sections 1 thru 6, which requires 2% verification between calculations and testing.

980H Operating Specifications – Standard

| Bucket Type | | Rock/Heavy Duty/Extra Wide Bucket – Pin On | | |
|---|-----------------|---|-------------------|--|
| Edge Type | | Teeth and Segments + Side Protector | High Lit Delta | |
| Capacity – Rated (§) | m ³ | 5.41 | | |
| | yd ³ | 7.07 | _ | |
| Capacity – Rated @ 110% Fill Factor | m ³ | 5.95 | _ | |
| | yd ³ | 7.78 | _ | |
| Width (§) | mm | 3645 | _ | |
| | ft/in | 11'11" | _ | |
| Dump Clearance at Maximum Lift and 45° Discharge (§) | mm | 2941 | 220 | |
| | ft/in | 9'7" | 0'8" | |
| Reach at Maximum Lift and 45° Discharge (§) | mm | 1965 | 2 | |
| | ft/in | 6'5" | 0'0" | |
| Reach at Level Lift Arm and Bucket Level (§) | mm | 3561 | 160 | |
| | ft/in | 11'8" | 0'6" | |
| Digging Depth (§) | mm | 77 | (1) | |
| | in | 3" | -0" | |
| Overall Length | mm | 10 156 | 200 | |
| | ft/in | 33'4" | 0'8" | |
| Overall Height with Bucket at Maximum Lift | mm | 6378 | 221 | |
| | ft/in | 21'0" | 0'9" | |
| Loader Clearance Circle with Bucket at Carry Position (§) | mm | 16 340 | 175 | |
| | ft/in | 53'8" | 0'7" | |
| Static Tipping Load, Straight (ISO)* | kg | 19 813 | (1720) | |
| | lb | 43,669 | (3,792) | |
| Static Tipping Load, Straight (Rigid Tire)* | kg | 21 461 | (1950) | |
| | lb | 47,301 | (4,299) | |
| Static Tipping Load, Articulated (ISO)* | kg | 17 091 | (1550) | |
| | lb | 37,669 | (3,416) | |
| Static Tipping Load, Articulated (Rigid Tire)* | kg | 19 053 | (1787) | |
| | lb | 41,993 | (3,939) | |
| Breakout Force** (§) | kN | 173 | 3 | |
| | lbf | 38,896 | 719 | |
| Operating Weight* | kg | 32 239 | 115 | |
| | lb | 71,055 | 253 | |

* Static tipping loads and operating weights shown are based on a global machine configuration with Michelin 29.5R25 XHA2 L3 Radial tires, full fluids, operator, standard counterweight, standard (not Heavy Duty) transmission, standard linkage, cold start, roading fenders, Product Link, open differential axles (front/rear), power train guard, secondary steering, sound suppression and 5.4 m³ GP bucket with BOCE.

** Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

(ISO) Full compliance to ISO 14397-1 (2007) Sections 1 thru 6, which requires 2% verification between calculations and testing.

980H Bucket Selection Chart

| | Ma | terial Density | kg/m³ | 7 | 00 80 | 00 91 | 00 10 | 100 11 | 00 12 | 00 13 | 800 1 | 400 | 1500 | 1600 1 | 700 1 | 800 19 | 00 20 | 00 21 | 00 2 | 200 | 2300 | 2400 |
|------------------|--------|--------------------------------------|--|----|---------|--------------------|--------|--------|---------|-------------------------|-------------------|---|------------------------------------|---------|-----------------------------------|--------------|---------------------|------------------------------------|-------|-------|-------|-------|
| | | General Purpose | 5.40 m³ (7.06 yd³) 5.70 m³ (7.46 yd³) 6.00 m³ (7.85 yd³) | | | | | | 6.5 | 6.56 90 m³ (9.0 | 6 m³ (8.5 | 21 m ³ (8. 8 yd ³) | 12 yd ³) | | 5.70 m³ (7 (7.85 yd³) | | (7.06 yd³) | | | | | |
| Standard Linkage | Pin On | Material Handling | 5.70 m³ (7.46 yd³) | | | | | | | 6.56 m ³ | 3 (8.58 yo | j ³) | | 5.7 | 0 m³ (7.46 | yd³) | | | | | | |
| Standar | Pi | Rock | 4.40 m³ (5.75 yd³) | | | | | | | | 5 | i.06 m³ (| 6.62 yd³) | | | | 4.40 m ³ | ³ (5.75 yd ^s |) | | | |
| | | Coal | 8.20 m³ (10.73 yd³) | | 9.43 | 3 m³ (12.3 | 3 yd³) | | 8.20 m | י ³ (10.73 א | /d³) | | | | | | | | | | | |
| | | General Purpose/ Heavy Duty | 5.70 m³ (7.46 yd³) | | | | | | | 6.56 | m³ (8.58 | yd³) | | E | i.70 m³ (7.4 | 46 yd³) | | | | | | |
| | Ma | terial Density | lb/yd³ | 1, | 180 1,: | 348 1,5 | 517 1 | ,685 1 | ,854 2, | 022 2 | ,191 | 2,359 | 2,528 | 2,696 2 | ,865 3, | 033 3, | 202 3,: | 370 3, | 539 3 | 3,707 | 3,876 | 4,044 |
| 11 | | ket Fill Factors 0% 105% 100% 95% | | | | | | | | | | | | | | | | | | | | |

Note: All buckets are showing Bolt-On Edges.

Bucket Fill Factors

(as a % of ISO Rated Capacity)

| Loose Material | | Performance Series Bucket |
|-----------------|-----------------------------|---------------------------|
| Earth/Clay | | 115 |
| Sand and Gravel | | 115 |
| Aggregate: | 25-76 mm (1 to 3 in) | 110 |
| | 19 mm (0.75 in) and smaller | 105 |
| Rock | | 100 |

Note: Fill Factors achieved will also depend on whether the product is washed or not washed.

980H Standard Equipment

Standard Equipment

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

ELECTRICAL

- Alarm, back-up
- Alternator, 105-amp brushed
- Batteries, maintenance free (4) 1,000 CCA
- Ignition key; start/stop switch
- Lighting system, halogen (6 total)
- Main disconnect switch
- Starter, electric, heavy-duty
- Starting and charging system (24-volt)
- Receptacle, starting, 24-volt

OPERATOR ENVIRONMENT

- Air conditioner
- Bucket/work tool function lockout
- Cab, pressurized and sound-suppressed ROPS/FOPS
- Radio-ready (entertainment) includes antenna, speakers and converter (12-volt, 10-amp)
- Coat hook
- Computerized monitoring system
- Instrumentation, gauges:
- -Digital gear range indicator
- Engine coolant temperature
- -Fuel level
- -Hydraulic oil temperature
- Speedometer/tachometer
- Transmission oil temperature
- Instrumentation, warning indicators:
- -Air inlet heater
- -Axle oil temperature
- -Electrical, voltage
- Engine inlet manifold temperature
- -Engine oil pressure
- -Fuel level
- -Fuel pressure, hi/low
- -Parking brake
- Primary steering oil pressure
- -Service brake oil pressure
- Transmission filter bypass

- Controls, electro-hydraulic, lift and tilt function
- Heater and defroster
- Horn, electric (console)
- Light, dome (cab)
- Lunch box, beverage holders and personal tray
- Mirror, rearview (internally mounted)
- Mirrors, external
- Seat, Cat Comfort (cloth) with air suspension
- Seat belt, retractable, 51 mm (2 in)
- Steering column, adjustable angle
- Steering, Command Control System
- Wet-arm wipers and washers, front and rear - Intermittent front wiper
- Window, sliding (left and right side)

POWER TRAIN

- Brakes, full hydraulic enclosed wet-disc with Integrated Braking System (IBS) and brake wear indicator
- Engine, Cat C15 with ACERT Technology and ATAAC
- Fan, radiator, electronically controlled, hydraulically driven, temperature sensing, on demand
- Filters, fuel, primary/secondary
- Filters, engine air
- Fuel priming pump (electric)
- Fuel/water separator
- Muffler, sound suppressed
- Radiator, unit core
- Starting aid, air inlet heater
- Single clutch speed shifting (SCSS)/ torque based 2-1 shift
- Switch, transmission neutralizer lockout
- Torque converter
- Transmission, automatic, planetary powershift (4F/4R)

OTHER

- Automatic bucket positioner
- Axle Ecology Drain
- Counterweight
- Couplings, Cat O-ring face seal
- Doors, service access (lockable)
- Ecology drains, engine, transmission and hydraulics
- Guard, airborne debris
- Hitch, drawbar with pin
- Hood, non-metallic, power tilting
- Hoses, Cat XT
- Hydraulic oil cooler
- Kickout, lift and tilt, automatic (in-cab adjustable)
- Linkage, Z-bar, cast cross tube/tilt lever
- Oil sampling valves
- Product Link
- Remote diagnostic pressure taps
- Remote FNR
- Sight gauges:
- Engine coolant
- -Hydraulic oil
- Transmission oil level
- Sun visor, front
- Steering, load sensing

TIRES, RIMS, WHEELS

• A tire must be selected from the mandatory attachments section. Base machine price includes an allowance based on a premium radial tire.

ANTIFREEZE

• Premixed 50% concentration of Extended Life Coolant with freeze protection to -34° C (-29° F)

Optional Equipment

Optional equipment may vary. Consult your Cat dealer for details.

- Aggregate Autodig System
- Ashtray
- Autolube
- Buckets and work tools
- Bucket Ground Engaging Tools (GET) see Cat dealer for details
- Camera, rear vision
- Cooler, axle oil
- Differentials
- -Limited slip, front or rear
- · Fenders, roading
- Fender extensions
- Fenders, steel front with mud flaps
- Guard, axle seal
- Guard, front window, wide or small mesh
- Guard, power train
- Heater, engine coolant, 120- or 240-volt
- High Ambient Cooling Package

- Hydraulic arrangement, three-valve
- Joystick control, two- or three-valve
- Lights, high intensity discharge (HID)
- Light, warning beacon
- Lights, work, cab-mounted
- Mirrors, heated external, folding
- Payload Control System
- Payload Control System Printer
- Platform, window cleaning
- Precleaner, turbine
- Precleaner, turbine/trash
- Product Link (GPS, GSM WW, GSM China)
- Radio, AM/FM Weatherband (CD)
- Radio, CB-ready
- Rear ladder, right
- Remote pressure taps, transmission
- Ride Control System, two- or three-valve
- Seat belt, 76 mm (3 in) wide

- Sound suppression, exterior
- Starting aid, ether
- Steering, secondary
- Special Machine Arrangements - High Lift Arrangement, two- and
 - three-valve
- -Forest Machine Arrangement
- Industrial Loader Arrangement
- Tool box
- Variable Pitch Fan (VPF)

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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