988K
Block Handler

**Engine**
- **Engine Model**: Cat® C18 ACERT™
- **Emissions**: U.S. EPA Tier 4 Final/EU Stage IV, Tier 2 Equivalent
- **Gross (ISO 14396)**: 432 kW (580 hp)
- **Net Power – SAE J1349**: 403 kW (541 hp)

**Operating Specifications**
- **Operating Weight**: 61,508 kg (135,602 lb)
Lower your operating costs with industry leading efficiency.

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Introduced in 1963, the 988 has been the industry leader for 50 years. Focused on helping our customers succeed, we have continued to build upon each new series. The 988K continues our legacy of reliability, performance, safety, operator comfort, serviceability, and efficiency.

The Cat 988K Block Handler was designed to withstand the demanding and harsh environment of block handling applications. The features of the 988K Block Handler work together to provide a durable and reliable machine to meet your block handling needs.
Efficiency
Delivering fuel efficiency you demand through integrated machine systems.

Economy Mode
Enabling maximum productivity and efficiency, all day every day.

The 988K systems work hard to save you fuel through advanced technologies. Utilizing On Demand Throttle, operators maintain normal operation with the left pedal and implements while the 988K manages the engine speed.

• Provides similar control and feel to our traditional throttle lock feature.
• Efficiency of manual throttle and the ergonomics of throttle lock.
• Reduced fuel consumption by up to 20% compared to the 988H.
Cat® C18 ACERT Engine
The Cat C18 ACERT engine is built and tested to meet your most demanding applications while meeting U.S. EPA Tier 4 Final/EU Stage IV, Tier 2 Equivalent emission standards.
- Fully integrated electronic engine controls works in concert with the entire machine to make your fuel go farther.
- Use less fuel idling with Engine Idle Shutdown.
- Maximized durability with Delayed Engine Shutdown.

Cat Planetary Powershift Transmission
Featuring all new Advanced Productivity Electronic Control Shifting (APECS) transmission controls provides greater momentum on grades and fuel savings by carrying that momentum through the shift points.

Impeller Clutch Torque Converter (ICTC)
Enable your operators to maximize efficiency by varying machine rimpull while putting more horsepower to hydraulics.
- Reduced tire wear
- Enables full throttle shifts for faster cycle times
- Provides smooth approach to the dump target for less spillage and faster cycle times.

Cat Torque Converter with Lock-up Clutch
- Eliminates TC losses while lowering system heat
- Improves travel speeds
- Reduces cycle times in load and carry operations
**Counterweight**
The 988K Block Handler delivers stability and durability with an optimized counterweight for block handling applications.

**High Rimpull Power Train**
The 988K Block Handler is capable of moving the heaviest blocks out of your quarry pit. The high rimpull power train features a torque converter and transmission specially designed for this application to maximize rimpull.

**Quick Coupler Activation**
The Block Handler includes an additional hydraulic valve with the Quick Coupler, allowing the operator to switch work tools and immediately lock the work tool during load and carry applications.

**Larger Tilt and Lift Cylinders**
The 988K Block Handler comes equipped with larger tilt and lift cylinders on the linkage that help improve load control and ensure safe and long lasting operation.

**Ride Control**
Ride control works by using an accumulator to dampen the linkage motion, acting as a shock absorber. It provides the operator with a smoother ride over rough terrain, enabling a more comfortable ride at higher speeds.
Optimized Z-bar Linkage

- Linkage layout designed to maximize lift capability in block handling application.
- High load stresses are absorbed by solid steel lift arms.
- Enhanced strength in key pin areas through the use of one piece castings.
- Stress released lift arms increase durability and lengthen time to repair.
Steering and Transmission Integrated Control System (STIC™)
Experience maximum responsiveness and control with STIC that combines directional selection, gear selection and steering into a single lever.
- Simple side-to-side motion turns machine right or left, minimizing operator movements.
- Easy to operate finger controlled gear selection.
- Smoother, faster cycles and less operator fatigue through the use of low effort integrated controls.

Cat Planetary Powershift Transmission
Building your success begins with a best-in-class transmission designed specifically for mining applications.
- Consistent, smooth shifting and efficiency through integrated electronic controls that utilize Advanced Productivity Electronic Control Strategy (APECS).
- Long life and reliability through heat treat gear and metallurgy.
- Four forward and three reverse speeds to match your application.

Cat C18 ACERT Engine
Durability and efficiency at the heart of your 988K comes from the Cat C18 ACERT Engine. Optimum performance is built in through the use of a 6 cylinder, four-stroke design.
- Optimized performance and quick engine response with an electronic control module.
- Reliable efficiency with complete control over injection timing, duration and pressure with Mechanically Actuated Electronic Unit Injection (MEUI™).
- Extended engine life and improved fuel efficiency with reduced rated speed.
- Designed to meet U.S. EPA Tier 4 Final/EU Stage IV, Tier 2 Equivalent emission standards.
Power Train
Move material more efficiently with improved power and control.

Impeller Clutch Torque Converter (ICTC) and Rimpull Control System (RCS)
Lower your cost per ton utilizing advanced ICTC and RCS for modulated rimpull.

- Reduce tire slippage and wear by modulating rimpull from 100 to 25 percent while depressing left pedal. After 25 percent rimpull is achieved the left pedal applies the brake.
- Reduce the potential for wheel slippage without reducing hydraulic efficiency with RCS.
- Improve fuel efficiency in certain applications with our lock-up clutch torque converter providing direct drive.
Hydraulics
Productivity enabling you to move more and make more.

Positive Flow Control Hydraulics
Increase efficiency through our Positive Flow Control (PFC) Hydraulic System. PFC has concurrent pump and valve control. By optimizing pump control, hydraulic oil flow is proportionate to implement lever movement.

- Fast, productive cycles are enabled by the fully variable implement pump.
- Increase bucket feel and control through increased hydraulic response.
- Consistent performance and efficiency with lower system heat.
- Full hydraulic flow down to 1,400 engine rpm enabled by flow sharing technology.
**Electro Hydraulic Controls**
Operators increase productivity with our responsive implements feature.

- Operate comfortably through electronically controlled hydraulic cylinder stops.
- Handle easy-to-use soft detent controls.
- Conveniently set automatic implement kickouts from inside the cab.

**Steering System**
Confident loader operation starts with precise machine control enabled by the 988K’s load sensing hydraulic steering system.

- Increase efficiency with our variable displacement piston pumps.
- Enhance operator comfort with integrated steering and transmission control functions.

**Filtration System**
Benefit from extended performance and reliability of your hydraulic system with our advanced filtration system.

- Case drain screens.
- Hydraulic oil cooler return filter.
- Pilot filter.
- Return screens inside hydraulic tank.
- Axle oil cooler screens if equipped.
Your operators can work more efficiently and stay comfortable with our customer-inspired cab features.

**Entry and Exit**
Enter and exit the cab easily and safely with these newly designed, ergonomic features.
- Fold up STIC steer/armrest.
- Reduced access stairway angles.
- Standard stairway lighting.

**Cat Comfort Series III Seat**
Enhance comfort and reduce operator fatigue with Cat Comfort Series III seat.
- Mid back design and extra thick, contoured cushions.
- Air suspension system.
- Easy-to-reach seat levers and controls for six way adjustments.
- Seat-mounted implement pod and STIC steer that moves with the seat.
- 76 mm (3 in) wide retractable seat belt.

**Control Panel**
Ergonomic placement of switches and Information display keep your operators comfortable all day every day.
- Large backlit membrane switches feature LED activation indicators.
- Switches feature ISO symbols for quick function identification.
- Two position rocker switch activates the electro hydraulic park brake.

**Environment**
Your operator’s productivity is enhanced with our clean, comfortable cab environment.
- Experience reduced vibrations from isolation cab mounts and seat air suspension.
- Maintain desired cab temperature with automatic temperature controls.
- Pressurized cab with filtered air.
- Sound level reduced to a quiet 71 dB(A).
- Convenient floor storage tray/lunch box.
Operator Station

Best-in-class operator comfort and ergonomics.
Technology Solutions
Greater productivity through Integrated Electronic Systems.

The 988K electronic systems have been completely integrated to function as one machine. This integration creates a smart machine and more informed operator, maximizing the productivity of both.

Cat Product Link™
Cat Product link allows remote monitoring of equipment to improve overall fleet management effectiveness. Events and diagnostic codes, as well as hours, fuel, idle time and other information are transmitted to a secure web based application, VisionLink®. VisionLink includes powerful tools to convey information to users and dealers, including mapping, working and idle time, fuel level and more.

VIMS™ 3G
We have worked hard to help our customers and operators perform at their best through our Vital Information Management System (VIMS 3G).

• Easy-to-view graphical information display features a large touch screen interface.
• Intuitive operation and easy navigation with our enhanced user interface.
• Decrease service time by keeping operators informed about machine system malfunction or operation.
We can help you succeed by ensuring your 988K has design features to reduce your downtime.

• Safe and convenient service with ground level or platform access and grouped service points.
• Swing-out doors on both sides of the engine compartment provide easy access to important daily service checks.
• Ecology drains for ease of service and prevention of spilling potential environmental contaminants.
• Reduce downtime with VIMS system notifications so your operators and technicians can resolve any problems before failure.
• Ground level access to transmission control valves.

Customer Support
Your Cat dealers know how to keep your machines productive.

Legendary Cat Dealer Support
A valued partner, your Cat dealer is available whenever you need them.
• Preventive maintenance programs and guaranteed maintenance contracts.
• Best-in-class parts availability.
• Improve your efficiency with operator training.
• Genuine Cat Remanufactured parts.
Safety
Making your safety our priority.

We are constantly improving our products in an effort to provide a safe work environment for the operator and those who work on your job site.

Machine Access
• Left and right hand stairs with 45 degree angle enhance safety for operators getting on and off the 988K.
• Continuous walkway with non-skid surfaces are designed into the service areas.
• Maintain three points of contact at all times through ground level or platform accessible service areas.
Visibility
• Optional heated mirrors allow good visibility for safe operation in inclement weather.
• Standard Cat Vision or optional Cat Detect with radar increase operator awareness around the machine.
• Optional HID or LED lights provide excellent workspace visibility.
• Optional cab mounted LED warning beacons.

Operator Environment
• Reduced vibrations to the operator with isolated cab mounts and seat mounted implement and steering controls.
• Low interior sound levels.
• Pressurized cab with filtered air.
• Standard 76 mm (3 in) seat belts on the operator seat.
Versatility
Work tool options to meet your needs.
1 Quick Coupler
The quick coupler is designed for optimal utilization of lifting and break-out forces with Cat cylinder, safety valves, pressure and isolating valves, safety covers and lock indicators. It has enhanced visibility and has been optimized for handling large rocks and blocks.

2 Breaker Tine
Center-mounted, heavy-duty single-piece forged fork tine is used for prying loose large stone blocks. It is built with an extra thick tine to handle a variety of materials in this demanding application.

3 Forks
Heavy-duty pallet forks are engineered to handle weight and load stress when maneuvering and placing blocks in quarry operations. Dual tine forks are designed to allow blocks to be placed close to the machine for greater balance and safe handling.

4 Clearing Rake
Used primarily for clearing and controlling loose objects at the quarry face and working levels, the block handling rake is designed with a curved boom for enhanced operator visibility and object placement.

5 Rock Bucket
Heavy-duty bucket offers superior durability, protection and performance in rock and overburden operations in block quarries. It includes large size teeth and segments. Its HD400 (high wear resistant) metal shell and bottom offer maximum strength, durability and wear life.

6 Marble Bucket
Special bucket construction including the HD400-metal shell and bottom help the bucket effectively load large blocks and boulders while maintaining durability. The corner teeth ease block tilting and handling. The heavy-duty V-edge is particularly suited for handling high-value breakable marbles before cutting operations.

7 Block Bucket Heavy-Duty
Special bucket construction loads very large squared blocks and boulders. The deep carved sides and extra long heavy-duty bottom allow the special V-edge to penetrate under large blocks. The interior bucket profile allows blocks to further fit back in the bucket for increased load and lift capabilities and better balance and rack-back. Its HD400-metal shell and bottom offers maximum strength, durability and wear life.
# 988K Block Handler Specifications

## Engine

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Model</td>
<td>Cat C18 ACERT</td>
</tr>
<tr>
<td>Emissions</td>
<td>U.S. EPA Tier 4 Final/ EU Stage IV, Tier 2 Equivalent</td>
</tr>
<tr>
<td>Rated Speed</td>
<td>1,700 rpm</td>
</tr>
<tr>
<td>Peak Power Speed</td>
<td>1,500 rpm</td>
</tr>
<tr>
<td>Gross – ISO 14396</td>
<td>432 kW 580 hp</td>
</tr>
<tr>
<td>Gross – SAE J1995</td>
<td>439 kW 588 hp</td>
</tr>
<tr>
<td>Net Power – SAE J1349</td>
<td>403 kW 541 hp</td>
</tr>
<tr>
<td>Bore</td>
<td>145 mm 5.7 in</td>
</tr>
<tr>
<td>Stroke</td>
<td>183 mm 7.2 in</td>
</tr>
<tr>
<td>Displacement</td>
<td>18.1 L 1,105 in³</td>
</tr>
<tr>
<td>Peak Torque @ 1,200 rpm</td>
<td>2852 N·m 2,104 lbf·ft</td>
</tr>
<tr>
<td>Torque Rise</td>
<td>58%</td>
</tr>
</tbody>
</table>

## Transmission

<table>
<thead>
<tr>
<th>Mode</th>
<th>Speed (km/h)</th>
<th>Speed (mph)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forward 1</td>
<td>5.8</td>
<td>3.6</td>
</tr>
<tr>
<td>Forward 2</td>
<td>10.3</td>
<td>4.5</td>
</tr>
<tr>
<td>Forward 3</td>
<td>18.3</td>
<td>11.4</td>
</tr>
<tr>
<td>Forward 4</td>
<td>30.5</td>
<td>19</td>
</tr>
<tr>
<td>Reverse 1</td>
<td>6.6</td>
<td>4.1</td>
</tr>
<tr>
<td>Reverse 2</td>
<td>11.8</td>
<td>7.3</td>
</tr>
<tr>
<td>Reverse 3</td>
<td>20.8</td>
<td>13</td>
</tr>
<tr>
<td>Direct Drive Forward 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Direct Drive Forward 2</td>
<td>10.8</td>
<td>6.7</td>
</tr>
<tr>
<td>Direct Drive Forward 3</td>
<td>19.2</td>
<td>11.9</td>
</tr>
<tr>
<td>Direct Drive Forward 4</td>
<td>34</td>
<td>21</td>
</tr>
<tr>
<td>Direct Drive Reverse 1</td>
<td>6.9</td>
<td>4.3</td>
</tr>
<tr>
<td>Direct Drive Reverse 2</td>
<td>12.4</td>
<td>7.7</td>
</tr>
<tr>
<td>Direct Drive Reverse 3</td>
<td>22</td>
<td>13.7</td>
</tr>
</tbody>
</table>

- Travel speeds based on 35/65-R33 tire.

## Operating Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Weight</td>
<td>61 508 kg 135,602 lb</td>
</tr>
</tbody>
</table>

- Travel speeds based on 35/65-R33 tire.
**Hydraulic System – Lift/Tilt**

<table>
<thead>
<tr>
<th>Lift/Tilt System – Circuit</th>
<th>Pilot operated – EH control, flow sharing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lift/Tilt System</td>
<td>Variable displacement piston</td>
</tr>
<tr>
<td>Maximum Flow at 1,400-1,860 rpm</td>
<td>580 L/min 153 gal/min</td>
</tr>
<tr>
<td>Relief Valve Setting – Lift/Tilt</td>
<td>32 800 kPa 4,757 psi</td>
</tr>
<tr>
<td>Cylinders, Double Acting: Lift, Bore and Stroke</td>
<td>235 mm × 9.3 in × 976 mm 38.4 in</td>
</tr>
<tr>
<td>Cylinders, Double Acting: Tilt, Bore and Stroke</td>
<td>291 mm × 11.5 in × 671 mm 26.4 in</td>
</tr>
<tr>
<td>Pilot System</td>
<td>Variable displacement piston</td>
</tr>
<tr>
<td>Maximum Flow @ 1,700 rpm</td>
<td>52 L/min 13.7 gal/min</td>
</tr>
<tr>
<td>Relief Valve Setting</td>
<td>3800 kPa 551 psi</td>
</tr>
</tbody>
</table>

**Hydraulic Cycle Time**

| Rack back                  | 4.5 Seconds |
| Raise                      | 8.0 Seconds |
| Dump                       | 2.2 Seconds |
| Lower Float Down           | 3.5 Seconds |
| Total Hydraulic Cycle Time (empty bucket) | 18.2 Seconds |

**Hydraulic System – Steering**

<table>
<thead>
<tr>
<th>Steering System – Circuit</th>
<th>Pilot, load sensing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steering System – Pump</td>
<td>Piston, variable displacement</td>
</tr>
<tr>
<td>Maximum Flow</td>
<td>280 L/min 74 gal/min</td>
</tr>
<tr>
<td>Relief Valve Setting – Steering</td>
<td>32 000 kPa 4,641 psi</td>
</tr>
<tr>
<td>Total Steering Angle</td>
<td>86°</td>
</tr>
<tr>
<td>Steering Cycle Time (high idle)</td>
<td>3.4 sec</td>
</tr>
<tr>
<td>Steering Cycle Time (low idle)</td>
<td>5.6 sec</td>
</tr>
</tbody>
</table>

**Service Refill Capacities**

| Fuel Tank                  | 712 L 188.1 gal |
| Cooling System             | 120 L 31.7 gal |
| Crankcase                  | 60 L 15.9 gal  |
| Diesel Exhaust Fluid Tank  | 33 L 8.7 gal   |
| Transmission               | 120 L 31.7 gal |
| Differentials and Final Drives – Front | 186 L 49.1 gal |
| Differentials and Final Drives – Rear | 186 L 49.1 gal |
| Hydraulic System Factory Fill | 475 L 125.5 gal |
| Hydraulic System (tank only) | 240 L 63.4 gal |

- All non-road Tier 4 Final/Stage IV, and Japan (MLIT) Step 4 diesel engines are required to use:
  - Ultra Low Sulfur Diesel (ULSD) fuels containing 15 ppm (mg/kg) sulfur or less. Biodiesel blends up to B20 are acceptable when blended with 15 ppm (mg/kg) sulfur or less ULSD and when the biodiesel feedstock meets ASTM D7467 specifications.
  - Cat DEO-ULS™ or oils that meet the Cat ECF-3, API CJ-4, and ACEA E9 specifications are required.
  - Diesel Exhaust Fluid (DEF) that meets ISO 22241-1 requirements.

**Axles**

<table>
<thead>
<tr>
<th>Axles</th>
<th>Front</th>
<th>Fixed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rear</td>
<td>Trunnion</td>
<td></td>
</tr>
<tr>
<td>Oscillation Angle</td>
<td>13°</td>
<td></td>
</tr>
</tbody>
</table>

**Brakes**

| Brakes | SAE J1473 OCT90, ISO 3450:1992 |

**Sound Performance**

| Interior Sound Level | 71 dB(A) 70 dB(A) |
| Exterior Sound Level | 111 dB(A) 109 dB(A) |
### Dimensions

All dimensions are approximate.

<table>
<thead>
<tr>
<th></th>
<th>Quick Coupler and 6.9 m$^3$ (9.0 yd$^3$) Bucket</th>
<th>Quick Coupler and Fork</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ground to Top of ROPS</td>
<td>4187 mm 13.7 ft</td>
</tr>
<tr>
<td>2</td>
<td>Ground to Top of Exhaust Stacks</td>
<td>4498 mm 14.8 ft</td>
</tr>
<tr>
<td>3</td>
<td>Ground to Top of Hood</td>
<td>3334 mm 10.9 ft</td>
</tr>
<tr>
<td>4</td>
<td>Ground to Center of Front Axle</td>
<td>978 mm 3.2 ft</td>
</tr>
<tr>
<td>5</td>
<td>Ground to Bumper Clearance</td>
<td>933 mm 3.1 ft</td>
</tr>
<tr>
<td>6</td>
<td>Ground to Lower Hitch Clearance</td>
<td>568 mm 1.9 ft</td>
</tr>
<tr>
<td>7</td>
<td>Reach at Maximum Lift</td>
<td>2765 mm 9.1 ft</td>
</tr>
<tr>
<td>8</td>
<td>Clearance at Maximum Lift</td>
<td>3449 mm 11.3 ft</td>
</tr>
<tr>
<td>9</td>
<td>B-Pin Height at Maximum Lift</td>
<td>4918 mm 16.1 ft</td>
</tr>
<tr>
<td>10</td>
<td>Maximum Overall Height, Bucket Raised</td>
<td>6815 mm 22.4 ft</td>
</tr>
<tr>
<td>11</td>
<td>Rear Axle Center Line to Bumper</td>
<td>3187 mm 10.5 ft</td>
</tr>
<tr>
<td>12</td>
<td>Wheelbase</td>
<td>4550 mm 14.9 ft</td>
</tr>
<tr>
<td>13</td>
<td>Maximum Overall Length with Forks on the Ground</td>
<td>11 938 mm 39.2 ft</td>
</tr>
<tr>
<td>14</td>
<td>Front Axle Centerline to Bucket Tip</td>
<td>4201 mm 13.8 ft</td>
</tr>
</tbody>
</table>
Load Capacity Curves
L5 Tires, Fork at 25 degree Rack Angle, 1810 mm (71") Tine, Block Handler Quick Coupler and Block Handler Fork.

NOTE:
Static tipping loads and operating weight are based on the following loader configuration: L5 Bridgestone bias tires, air conditioning, ride control, power train guard, full fluids, fuel tank, coolant, lubricants, and operator.

Specifications and ratings conform to the following standards: SAE* J1197, SAE J732, CEN** EN 474-3.

The rated operating load for a loader equipped with a pallet fork is determined by:
SAE J1197: 50% of full turn static tipping load or hydraulic limit.
CEN EN 474-3: 60% of full turn static tipping load on rough terrain or hydraulic limit.
CEN EN 474-3: 80% of full turn static tipping load on firm and level ground or hydraulic limit.

*SAE – Society of Automotive Engineers
**CEN – European Committee for Standardization
### 988K Block Handler Specifications

#### Operating Specifications

For machines equipped with Bridgestone 42 PR bias tires with 6.55 bar (95 psi) pressure.

<table>
<thead>
<tr>
<th>Bucket Type</th>
<th>Rock</th>
<th>Rock</th>
<th>Fork</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ground Engaging Tool</td>
<td>K130</td>
<td>K131</td>
<td>–</td>
</tr>
<tr>
<td>Cutting Edge Type</td>
<td>Spade</td>
<td>Spade</td>
<td>–</td>
</tr>
<tr>
<td>Bucket Part Number</td>
<td>418-0080</td>
<td>418-0090</td>
<td>418-0070</td>
</tr>
</tbody>
</table>

| Struck Capacity | m³ | 5.5 | 5.2 | – |
|                 | yd³ | 7.2 | 6.8 | – |
| Heaped Capacity (Rated) | m³ | 7 | 6.6 | – |
|                 | yd³ | 9.2 | 8.6 | – |
| Bucket Width | mm | 3940 | 4020 | – |
|               | ft  | 12.9 | 13.2 | – |
| Dump Clearance at Full Lift and Full Dump Angle (Segment) | mm | 3449 | 3316 | – |
|               | ft  | 11.3 | 10.9 | – |
| Dump Clearance at Full Lift and Full Dump Angle (with Teeth) | mm | – | 3144 | – |
|               | ft  | – | 3316 | – |
| Reach at Lift and Full Dump Angle (Segment) | mm | 2765 | 2910 | – |
|               | ft  | 9.1 | 9.5 | – |
| Reach at Lift and Full Dump Angle (with Teeth) | mm | – | 3132 | – |
|               | ft  | – | 3316 | – |
| Reach with Lift Arms Horizontal and Bucket Level (Segment or Teeth) | mm | 3926 | 4399 | – |
|               | ft  | 12.9 | 14.4 | – |
| Digging Depth (Segment) | mm | 150 | 185 | – |
|               | in  | 5.9 | 7.3 | – |
| Overall Length (Bucket Level Ground) | mm | 11,938 | 12,436 | 12,149 |
|               | ft  | 39.2 | 40.8 | 39.9 |
| Overall Height with Bucket at Full Raise | mm | 6815 | 6815 | – |
|               | ft  | 22.4 | 22.4 | – |
| Loader Clearance Turning Radius (SAE Carry) | mm | 8714 | 8834 | 7789 |
|               | ft  | 28.6 | 29.0 | 25.6 |
| Full Dump Angle | degrees | –32 | –32 | – |
| Static Tipping Load – Straight (Rigid Tire) | kg | 52,887 | 51,384 | 43,217 |
|               | lb  | 116,597 | 113,281 | 95,277 |
| Static Tipping Load – Straight (Tire Squash) | kg | 50,417 | 48,893 | 42,176 |
|               | lb  | 111,150 | 107,790 | 92,982 |
| Static Tipping Load – Full Turn (Articulated 35°) (Rigid Tire) | kg | 46,933 | 45,488 | 38,471 |
|               | lb  | 103,470 | 100,283 | 84,815 |
| Static Tipping Load – Full Turn (Articulated 35°) (Tire Squash) | kg | 42,719 | 42,166 | 35,513 |
|               | lb  | 94,179 | 92,960 | 78,293 |
| Static Tipping Load – Full Turn (Articulated 43°) (Rigid Tire) | kg | 44,043 | 42,625 | 36,168 |
|               | lb  | 97,098 | 93,972 | 79,736 |
| Static Tipping Load – Full Turn (Articulated 43°) (Tire Squash) | kg | 39,384 | 37,963 | 32,945 |
|               | lb  | 86,827 | 83,694 | 72,631 |
| Breakout Force | kN | 432 | 388 | – |
|               | lbf | 97,093 | 87,201 | – |
| Operating Weight | kg | 63,381 | 64,106 | 61,508 |
|               | lb  | 139,730 | 141,329 | 135,602 |

<table>
<thead>
<tr>
<th>Weight Distribution at SAE Carry (Unloaded)</th>
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<tbody>
<tr>
<td>Front</td>
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<tr>
<td>Rear</td>
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</table>

25 degree fork angle for tipping loads with 418-0070 forks.
### Standard Equipment

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

#### ELECTRICAL
- Alarm, back-up
- Alternator, single 150 amp
- Batteries, dry
- Converter, 10/15 amp, 24V to 12V
- Lighting system (halogen, work lights, access and service platform lighting)
- Starting and charging system, 24V
- Starter emergency start receptacle
- Starter lockout in bumper
- Transmission lockout in bumper

#### OPERATOR ENVIRONMENT
- Graphical Information Display, displays real time operating information, performs calibrations and customizes operator settings
- Air conditioner
- Cat Detect Vision, rear vision camera system
- Cab, sound suppressed and pressurized, integrated rollover protective structure (ROPS/FOPS) radio ready for entertainment, includes antenna, speakers and converter (12-volt 5-amp) and power port
- Controls, lift and tilt function
- Heater, defroster
- Horn, electric
- Instrumentation, gauges
  - Coolant temperature
  - Engine hour meter
  - Hydraulic oil temperature
  - Power train oil temperature
- Light, cab, dome
- Lunchbox, beverage holders
- Mirrors, rearview (externally mounted)
- Rimpull Control System
- Seat, Cat Comfort (cloth), air suspension, six-way adjustable
- Seat belt, retractable, 76 mm (3 in) wide
- STIC Control System
- UV glass
- Transmission gear indicator
- Vital Information Management System (VIMS) with Graphical Information Display: External Data Port, Customizable Operator Profiles, Cycle Timer, Integrated Payload Control System
- Wet-Arm wipers/washers (front and rear)
  - Intermittent front and rear wipers
- Lights, directional

#### POWER TRAIN
- Brakes, oil-cooled, multi-disc, service/secondary
- Case drain screens
- Crankcase guard
- Electro hydraulic parking brake
- Engine, C18 MEUI diesel, turbocharged/aftercooled
- Ground level engine shutoff
- Turbine precleaner, engine air intake
- Radiator, Next Generation Modular (NGMR)
- Starting aid, ether, automatic
- Throttle lock, electronic
- Torque converter, Impeller Clutch (ICTC) with Lock up clutch (LUC), Rimpull Control System
- Transmission, planetary powershift, 4F/3R electronic control

#### OTHER
- Automatic bucket lift kickout/positioner
- Base machine price includes a rim allowance
- Hydraulically driven demand fan
- Couplings, Cat O-ring face seals
- Doors, service access (locking)
- Ecology drains for engine, radiator, hydraulic tank
- Fuel tank, 731 L (188 gal)
- Hitch, drawbar with pin
- Hoses, Cat XT™
- Hydraulic, steering and brake filtration/screening system
- Cat Clean Emission Module
- Oil sampling valves
- Premixed 50% concentration of extended life coolant with freeze protection to –34° C (–29° F)
- Rear access to cab and service platform
- Steering, load sensing
- Toe kicks
- Vandalism protection caplocks
## 988K Optional Equipment

Optional Equipment

With approximate changes in operating weights. Optional equipment may vary. Consult your Cat dealer for specifics.

### POWER TRAIN
- -50°C (-58°F) antifreeze
- Engine oil change system, high speed, Wiggins
- Engine block heater 120V or 240V
- High ambient cooling – software
- Payload Control System (PCS)

### OPERATOR ENVIRONMENT
- Cab precleaner
- AM/FM/CD/MP3 radio
- Satellite Sirius radio with bluetooth
- LED warning strobe
- CB radio ready
- Window pull down visor

### MISCELLANEOUS ATTACHMENTS
- Front and rear roading fenders
- Fast fill fuel system (Shaw-Aero)
Mandatory Attachments

Select one from each group. Mandatory and optional equipment may vary. Consult your Cat dealer for specifics.

LINKAGE
- Standard with two valves
- Standard with three valves
- High Lift with two valves
- High Lift with three valves
- Autolube
- Manual grease pins

ELECTRICAL
- No Product Link
- Product Link (Satellite)
- Product Link (Cellular)

STEERING
- Standard steering
- Secondary steering

POWER TRAIN
- Axle oil cooler
- Standard axles
- Standard fuel lines
- Heated fuel lines
- Standard axle
- No spin axle
- Extreme temperature axle
- Standard engine air turbine precleaner
- Dual stage precleaner
- No engine brake
- Engine brake

LIGHTING
- Standard lighting
- HID lighting
- LED lighting

OPERATOR ENVIRONMENT
- No suppression arrangement
- Sound suppression
- Standard seat
- Heated seat
- Standard seat belt
- Seat belt minder
- Standard cab glass
- Rubber mounted cab glass
- Fixed glass door, standard
- Sliding glass door
- Standard cab air cleaner
- RESPA cab air cleaner
- Standard mirror
- Heated mirror
- Vision Display
- Cat Detect (Object Detection)

HYDRAULICS
- Ride control
- No ride control
- Standard hydraulic oil
- Fire resistant (EcoSafe) hydraulic oil
- Cold weather hydraulic oil

FUEL SYSTEM
- Conventional fuel arrangement
- Cold weather starting