

MH3040

WHEEL MATERIAL HANDLER



Engine Model
Maximum Operating Weight
Maximum Reach

Cat® C7.1
38 700 kg (85,310 lb)
15 490 mm (50.8 ft)



MH3040

WHEEL MATERIAL HANDLER

The Cat® MH3040 material handler is built to be powerful, reliable, and easy to use. With a comfortable cab and low maintenance costs, it helps optimize performance and boost productivity for operators. Designed with proven components, it helps provide the durability and power needed to handle tough jobs with confidence.



PROVEN RELIABILITY

The MH3040 is built from proven components designed to withstand the toughest applications. Count on your machine to provide the durability and reliability you expect from Cat products.

LOW FUEL CONSUMPTION

Two power modes and an electrically driven fan with auto reverse function help minimize fuel use and increase engine efficiency.

LOW MAINTENANCE COSTS

Long life filters for fuel, hydraulic oil, and air help lower your overall costs.



Machine Setup Simplification

- At the touch of fingertips and navigating user-friendly icons, the latest operator oriented User Interface (UI) maximizes uptime and gets crews to work without delay. From re-ordering work tool lists to creating new work tool combinations as needed, operators can quickly set up machines and easily access information.
- The interface allows operators to maintain accuracy and makes the most of every second of their shift. Adding the ability to input couplers and attachments into the system makes setting up work tool combinations highly efficient by significantly reducing calibration time. It also eliminates the need to measure up again when changing Cat® work tool attachments and makes it manageable for a single person to check and adjust for bucket wear.

Cat Payload*

- Cat Payload provides operators with on-the-go weighing to help them hit load targets and avoid overloading, underloading, or misloading materials. Combine Payload with VisionLink® Productivity** to analyze jobsites and individual assets for remote management of production targets and key metrics.

Swing Assist

- Swing Assist automatically stops machine swing at operator-defined preset points. Simply swing to the desired stopping point and activate using the machine monitor or a preset joystick button. As you get closer, the machine will automatically decelerate and not allow swing past the set point. Swing Assist helps you hit more repetitive swing targets to help reduce fuel use and improve cycle times.

**Payload technologies are not legal for trade.*

***VisionLink® subscription required.*

*Not all features are available in all regions. Please check with your Cat dealer for specific offering availability in your area.
Build Number: 07E*

HIGH PERFORMANCE

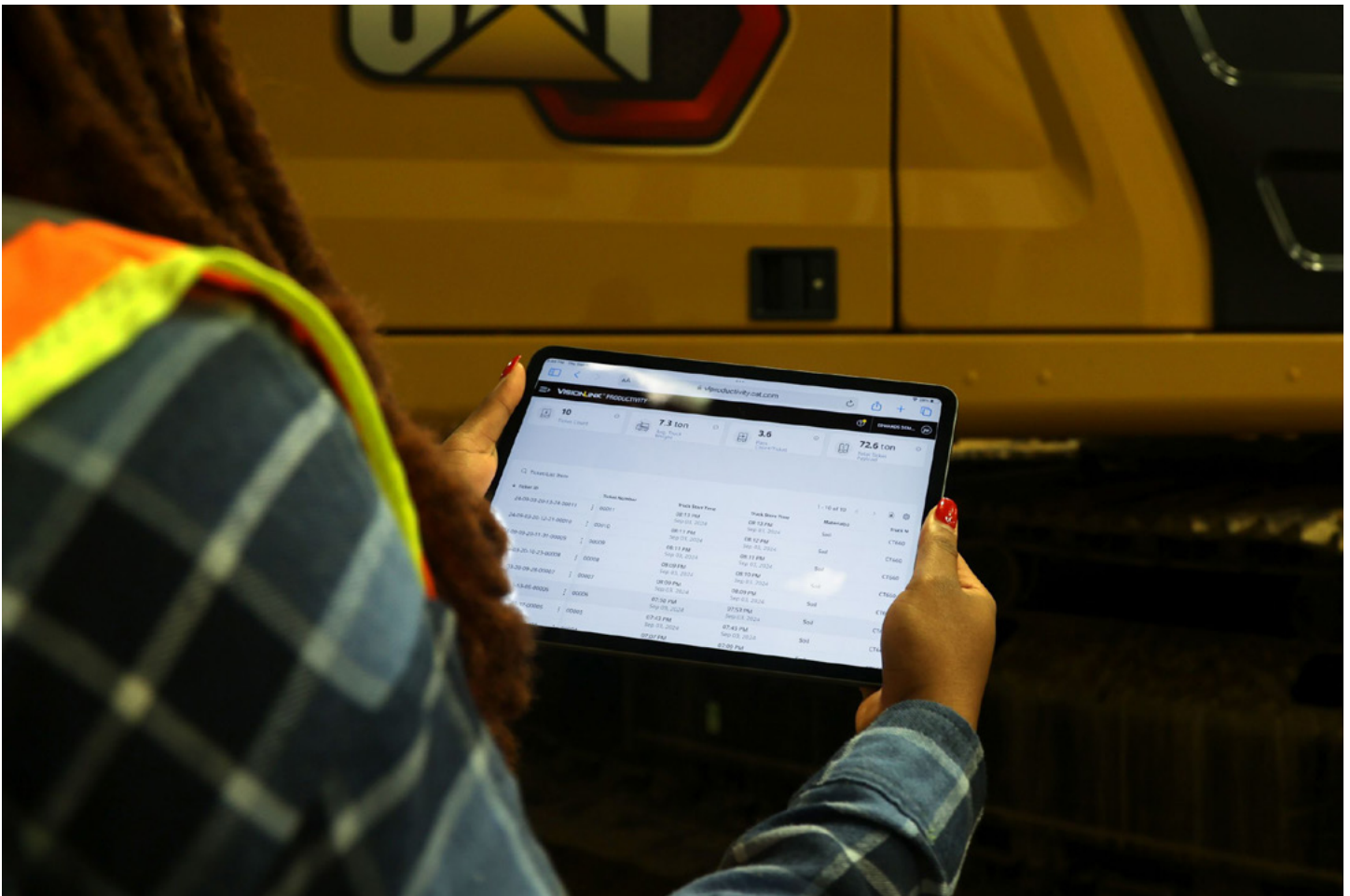


- The C7.1 engine can run on biodiesel up to B20 and meets U.S. EPA Tier 4 Final and EU Stage V emission standards with an aftertreatment system that requires no scheduled maintenance or downtime.
- Match the machine to the job with three power modes – Power, Smart, and Eco. Smart mode automatically matches engine and hydraulic power to working conditions, helping provide maximum power when needed and reducing power when it isn't to save fuel.
- The advanced electro-hydraulic system helps provide the optimum balance of power and efficiency while giving you the control you need.
- Available SmartBoom™ lets the boom freely travel up and down without using any pump flow so operators can focus on stick and bucket work.
- Valve priority helps put hydraulic pressure and flow where you need it.
- Program and store your preferred power mode and joystick settings using your Operator ID. The machine will automatically remember your selections.

INTEGRATED CAT® TECHNOLOGIES

- Cat Payload helps you achieve precise load targets to improve your operating efficiency. Pick up a load of material – with a bucket and thumb combination or grapple and clamshell attachments – and get a real-time weight estimate without swinging.
- Combine Cat Payload with VisionLink® and remotely manage your production targets.
- VisionLink provides actionable data insights for all assets – regardless of fleet size or equipment manufacturer.* Review equipment data from your desktop or mobile device to maximize uptime and optimize assets. Dashboards provide information such as hours, miles, location, idle time, and fuel utilization. Make informed decisions that lower costs, simplify maintenance, and improve safety and security on your jobsite.
- Swing Assist automatically stops machine swing at operator-defined preset points. Simply swing to the desired stopping point and activate using the machine monitor or a preset joystick button. As you get closer, the machine will automatically decelerate and not allow swing past the set point. Swing Assist helps you hit more repetitive swing targets to help reduce fuel use and improve cycle times.
- Remote Troubleshoot is a mobile application that allows your Cat dealer to perform diagnostic testing on your connected machine remotely to help ensure that issues are resolved quickly and with less downtime.
- Remote Flash is a mobile application that allows you to update onboard software without a technician being present, allowing you to initiate software updates when convenient, increasing your overall operating efficiency.

**Data field availability can vary by equipment manufacturer.*



WORK IN COMFORT



- Choose between a deluxe and premium cab. Both provide a comfortable, ergonomic work environment.
- The cab has a wide seat that adjusts for operators of all sizes.
- Get in and out of the cab easier using the tilt-up left console.
- Control the machine comfortably with easy-to-reach controls all located in front of you.
- Standard automatic climate control keeps you at the right temperature all shift long.
- Stow your gear with plenty of in-cab storage beneath and behind the seat, overhead, and in the consoles. A cup holder, document holder, bottle holder, and coat hook are also provided.
- Connect to personal devices via the standard radio's USB ports and Bluetooth® technology.
- Optional auxiliary relay powers on and turns off CB radios, beacon lights, and other attachments without taking your hands off the joysticks.
- Cat continues to improve user interface functionality for operators of all skill levels. The touchscreen monitor is an easy-to-use operating tool that presents the jobsite dashboard with an intuitive format.
- Productivity applications are displayed in grid view to read on the go, and touchscreen navigation is programmed to ensure job performance continues without any hold-ups.

RELIABLE, DURABLE, AND VERSATILE

- Count on your machine to withstand wear throughout the years. Boom, sticks, and other high-stress areas are reinforced with thick multi-plate fabrications, castings, and forgings to help ensure quality and reliability.
- The upper frame uses specially designed mountings to support the heavy-duty cab, and the lower frame is reinforced to help enhance component durability.
- Work up to 3000 m (9,840 ft) above sea level without de-rating.
- Don't let the temperature stop you from working. The machine has a standard high-ambient temperature capability of 43°C (109°F) and cold start capability of -18°C (0°F).
- Auto warm-up speeds up hydraulic oil warming in cold temperatures and helps prolong the life of components.
- Standard autolube simplifies maintenance by automatically keeping the machine greased from the swing bearing and cab riser to the stick end.
- Match your machine to the application. Multiple configurations allow you to customize your machine to your needs.
- An optional 20 kW (27 hp) generator allows for magnet operation. Generator controls are fully integrated into the cab monitor.
- Expand your work capabilities with attachments for a variety of applications
- Make operating easier with the touch of a joystick button. Additional auxiliary relays allow you to power on or turn off a CB radio, beacon light, and even a dust suppression watering system without taking your hands off the joysticks.



MAINTENANCE



- Track your machine's filter life and maintenance intervals via the in-cab monitor.
- Scheduled Oil Sampling (S-O-SSM) ports are located at ground level, helping simplify maintenance and allowing for quick, easy extraction of fluid samples for analysis.
- The long life of the air intake filter with pre-cleaner helps save on maintenance costs.
- The hydraulic oil filter helps provide high filtration performance, anti-drain valves to help keep oil clean when the filter is replaced, and long life with a 3,000-hour replacement interval.
- High-efficiency cooling fans run only when needed; you can program intervals so they automatically reverse to help keep cores clean without interrupting your work.
- Boost productivity with proactive service reminders. The integrated vehicle health management system alerts the operator with step-by-step service guidance and the parts needed to help reduce unnecessary downtime.

SAFETY FEATURES

- Cab Avoidance helps you avoid contact between your work tool attachment and the cab.
- Standard 2D E-fence prevents your machine from moving outside operator-defined parameters.
- Ground-level shutoff switch stops all fuel to the engine when activated and shuts down the machine.
- Keep your machine secure with Operator ID. Use your PIN code on the monitor to enable the push-button starting feature.
- Enjoy great all-around visibility with the help of small cab pillars, large windows, and a flat engine hood design. Rearview and side-view cameras are standard.
- Standard 1800-lumen LED exterior lights illuminate your surroundings for a safer work environment.
- Thick impact-resistant windshields fulfill P5A standards.
- Service platform design provides easy, safe, and quick access to the upper service platform. The service platform steps use an anti-skid punch plate to help prevent slipping.
- The standard hydraulic lockout lever isolates all hydraulic and travel functions in the lowered position.
- Optional Operator Protective Guards (OPG) protect from falling and flying debris.
- In an emergency, lower the cab safely with the emergency cab lowering valve behind the cab riser or to the right of the seat. The valve located behind the cab riser is easily accessible.
- Boom and stick lowering check valves prevent reverse flow, keeping your front linkage securely in place should the hydraulic system unexpectedly lose pressure.
- Make service work more accessible and safer with optional inspection lighting. With the flip of a switch, lights will illuminate the engine pump, battery, and radiator compartments to enhance visibility.



SUSTAINABILITY

- The Cat® C7.1 engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- The MH3040 emits less CO₂ than the M325D L MH.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels** up to: 20% biodiesel FAME (fatty acid methyl ester)* or 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels. Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details.
- Cat Scheduled Oil Sampling (S-O-SSM) Services help reveal excessive wear, contaminated fluids or other “unseen” issues that can shorten component life. In many cases, you can extend oil and coolant change intervals by using fluid monitoring. Consult your Cat dealer or the machine’s operation and maintenance manual for more information.
- Cat 2D E-fence keeps the front linkage within a predefined work area to avoid hazards such as traffic – not only helping keep personnel safe and helps avoid repairs, downtime, and costly jobsite fines.
- Extended maintenance intervals help reduce downtime but decrease the amount of fluid and filters that are replaced over the life of the machine.
- VisionLink displays the CO₂ emissions for monitored assets, calculated by fuel type for the Runtime Fuel Burned each day in a selected date range.
- Remote Flash helps minimize downtime and maintenance time while keeping your asset running with maximum efficiency. Alerts for machine updates are sent virtually from your Cat dealer and updates can be deployed without a dealer technician needing to be onsite.
- Remote Troubleshoot helps decrease maintenance time and keeps your machine running with maximum efficiency by allowing your Cat dealer to virtually test the machine while working. Once a problem is identified, a technician can fix it the first time, saving time and money.

**Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).*

***Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.*



MORE THAN MACHINES

BUILT AROUND YOUR SUCCESS

When you buy Cat equipment, you get so much more than the machine. You also get the support of a world-class dealer network, backed by a range of flexible solutions, technology, tools, and more.



CUSTOMER VALUE AGREEMENTS

A Customer Value Agreement (CVA) from your Cat dealer helps you do more and worry less. A CVA simplifies machine ownership and maintenance, adds the security of expert dealer support, and gives you the peace of mind from effective equipment health management.

GENUINE CAT® PARTS

Genuine Cat parts deliver the highest level of reliability and productivity. Order direct from your Cat dealer or shop online at parts.cat.com.

REPAIR OPTIONS

A broad range of repair options gives you choices that work with your needs, budget, and timeline. Every repair is performed by expert Cat technicians. You'll receive smart repair advice, a timely, accurate quote, and service that gets your machine back into action quickly.

FINANCIAL SERVICES

Count on Cat Financial to provide the best finance and extended protection solutions for your business. For more than 30 years, we have helped our customers succeed through financial service excellence.



DOZERS



SKID STEERS



MATERIAL HANDLERS



EXCAVATORS



WHEEL LOADERS



TRACK LOADERS

INCREASE YOUR PRODUCTIVITY AND PROFIT WITH CAT ATTACHMENTS

Easily expand the performance of your machine by using Cat attachments. Each Cat attachment is designed to fit the weight and horsepower of Cat material handlers for improved performance, safety, and stability.

ORANGE PEEL GRAPPLES



FORESTRY GRAPPLES



CLAMSHELL GRAPPLES



TECHNICAL SPECIFICATIONS

Engine

| | | |
|--------------------------------|--|---------------------|
| Engine Model | Cat C7.1 | |
| Net Power – ISO 9249 | 151 kW | 202 hp |
| Net Power – ISO 9249 (DIN) | 205 hp (metric) | |
| Engine Power – ISO 14396 | 150 kW | 201 hp |
| Engine Power – ISO 14396 (DIN) | 204 hp (metric) | |
| Bore | 105 mm | 4 in |
| Stroke | 135 mm | 5 in |
| Displacement | 7 L | 428 in ³ |
| Biodiesel Capability | Up to B20 ¹ | |
| Emissions | Meets U.S. EPA Tier 4 Final and EU Stage V emission standards. | |

Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system, and alternator with engine speed at 2,200 rpm. Advertised power is tested per the specified standard in effect at the time of manufacture.

¹Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels** up to: 20% biodiesel FAME (fatty acid methyl ester)* or 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels. Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details.

*Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).

**Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

Transmission

| | | |
|---|-----------|-------------|
| Maximum Travel Speed | 18 km/h | 11.2 mile/h |
| Drawbar Pull | 154 kN | 34,621 lbf |
| Maximum Gradeability | 44% | |
| Maximum Towable Dual Axles Trailer Mass | 50 000 kg | 110,000 lb |

Hydraulic System

| | | |
|-------------------------------|------------|-----------|
| Maximum Pressure – Implements | 35 000 kPa | 5,076 psi |
| Maximum Pressure – Swing | 28 400 kPa | 4,061 psi |
| Maximum Pressure – Travel | 35 000 kPa | 5,076 psi |

Swing Mechanism

| | | |
|----------------------|---------|---------------|
| Swing Speed* | 7 r/min | |
| Maximum Swing Torque | 82 kN-m | 60,628 lbf-ft |

*For CE-marked machine default value may be set lower.

Weights

| | | |
|---|-----------|-----------|
| Operating Weight | 38 700 kg | 85,310 lb |
| Operating weight includes full fuel tank, 75 kg (165 lb) operator, grapple 2000 kg (4,410 lb) and single tires. Weight varies depending on configuration. | | |

Service Refill Capacities

| | | |
|------------------------------------|--------|-----------|
| Fuel Tank Capacity | 474 L | 125.2 gal |
| Cooling System | 25 L | 6.6 gal |
| Engine Oil | 25 L | 6.6 gal |
| Rear Axle – Housing (Differential) | 34.2 L | 9 gal |
| Final Drive | 7.4 L | 2 gal |
| Powershift Transmission | 3 L | 0.8 gal |
| Hydraulic System – Including Tank | 329 L | 86.9 gal |
| Hydraulic Tank | 147 L | 38.8 gal |
| Diesel Exhaust Fluid (DEF) Tank | 41 L | 10.8 gal |

Dimensions

| | | |
|-----------------------------|--------------------------|---------|
| Boom | MH 9.3 m (30'6") | |
| Stick | Industrial 7.1 m (23'3") | |
| Shipping Length | 12 800 mm | 42 ft |
| Machine Length | 6330 mm | 20.8 ft |
| Tail Swing Radius | 3130 mm | 10.3 ft |
| Counterweight Clearance | 1740 mm | 5.7 ft |
| Cab Height- Lowered | 3660 mm | 12 ft |
| Cab Height-Lowered with OPG | 3805 mm | 12.5 ft |
| Cab Height-Raised | 6255 mm | 20.5 ft |
| Cab Height-Raised with OPG | 6400 mm | 21 ft |
| Wheel Base | 3210 mm | 10.5 ft |
| Shipping Width | 3000 mm | 9.8 ft |
| Ground Clearance | 265 mm | 0.9 ft |
| Undercarriage Length | 6225 mm | 20.4 ft |

Working Ranges

| | | |
|---------------------|--------------------------|---------|
| Boom | MH 9.3 m (30'6") | |
| Stick | Industrial 7.1 m (23'3") | |
| Maximum Reach | 15 490 mm | 50.8 ft |
| Maximum Height | 17 510 mm | 57.4 ft |
| Maximum Dump Height | 5445 mm | 17.9 ft |
| Maximum Depth | 5265 mm | 17.3 ft |
| Boom Pin Height | 12 195 mm | 40 ft |

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.2 kg (2.6 lb) of refrigerant which has a CO₂ equivalent of 1.716 metric tonnes (1.891 tons).

Sustainability

| | |
|---------------|-----|
| Recyclability | 95% |
|---------------|-----|

STANDARD & OPTIONAL EQUIPMENT

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

| | Standard | Optional |
|---|----------|----------|
| UNDERCARRIAGE AND STRUCTURES | | |
| All wheel drive | ✓ | |
| Automatic brake/axle lock | ✓ | |
| Creeper speed | ✓ | |
| Electronic swing and travel lock | ✓ | |
| Heavy-duty axles, advanced disc brake system, and travel motor with adjustable braking force | ✓ | |
| Lockable, oscillating front axle with remote greasing point | ✓ | |
| Two speed hydrostatic transmission | ✓ | |
| Counterweight 7700 kg (16,975 lb) | ✓ | |
| 16.00-25 single solid rubber tires | | ✓ |
| 23.5-R25 single pneumatic tires | | ✓ |
| 12.00-20 dual solid rubber tires | | ✓ |
| Hitch towing | | ✓ |
| BOOM AND STICKS | | |
| 10.4 m (34'9") Material Handler boom | | ✓ |
| 9.3 m (30'6") Material Handler boom | | ✓ |
| 9.9 m (32'6") Barge boom | | ✓ |
| 6.8 m (22'4") Log Loader boom (N Am only) | | ✓ |
| 7.5 m (24'9") Industrial stick | | ✓ |
| 7.1 m (23'3") Industrial stick | | ✓ |
| 5.7 m (18'7") Industrial stick | | ✓ |
| 6.4 m (21'0") Straight stick | | ✓ |
| 4.1 m (13'3") Over/Under Log Loader stick (N Am only) | | ✓ |
| CAB | | |
| Advanced sound suppressed Tip Over Protective Structure (TOPS) certified cab with rubber mounts | ✓ | |
| High-resolution 254 mm (10") LCD touch screen monitor | ✓ | |
| Automatic bi-level air conditioner | ✓ | |
| Jog dial and shortcut keys for monitor control | ✓ | |
| Keyless push-to-start engine control | ✓ | |
| Tilt-up left-side console | ✓ | |
| Heated seat with air suspension (Deluxe cab) | ✓ | |
| Heated and ventilated seat with air suspension (Premium cab) | ✓ | |
| Fixed one-piece front window and skylight (P5A classified) | | ✓ |
| Fixed two-piece front window and skylight (P8B classified) | | ✓ |
| Operator Protective Guards (OPG) | | ✓ |

| | Standard | Optional |
|---|----------|----------|
| ENGINE | | |
| Cat C7.1 diesel engine | ✓ | |
| Three selectable modes: Power, Smart, Eco | ✓ | |
| Up to 4500 m (14,760 ft) altitude capability with engine power derate above 3000 m (9,840 ft) | ✓ | |
| Cold start capability –18°C (0°F) | ✓ | |
| 43°C (109°F) high-ambient cooling capacity with derate | ✓ | |
| Reversible electric cooling fans | ✓ | |
| Cold start, ether start (N Am and Aus-NZ only) | ✓ | |
| Cold start, block heater (N Am only) | | ✓ |
| CAT TECHNOLOGY | | |
| VisionLink® | ✓ | |
| Remote Flash and Remote Troubleshoot | ✓ | |
| Cat Payload | ✓ | |
| ELECTRICAL SYSTEM | | |
| Maintenance-free battery | ✓ | |
| LED chassis light, left-hand/right-hand boom lights, cab lights – 1800 lumens | ✓ | |
| Centralized electrical disconnect switch | ✓ | |
| Programmable time delay LED working lights after engine shutdown | ✓ | |
| Generator, 20 kW (27 hp) with wiring to stick nose | | ✓ |

(continued on next page)

STANDARD & OPTIONAL EQUIPMENT *(continued)*

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

| | Standard | Optional | | Standard | Optional |
|---|----------|----------|--|----------|----------|
| SERVICE AND MAINTENANCE | | | SAFETY AND SECURITY | | |
| Grouped location for engine oil and fuel filters | ✓ | | Rear and right-hand-side view cameras | ✓ | |
| Scheduled Oil Sampling (S-O-S SM) ports | ✓ | | Caterpillar One Key Security System | ✓ | |
| Automatic lubrication system for implement and swing system | ✓ | | Travel alarm | ✓ | |
| HYDRAULIC SYSTEM | | | Ground-level accessible secondary engine shutoff switch in cab | ✓ | |
| Boom and stick lowering control check valves | ✓ | | Signal/warning horn | ✓ | |
| Boom and stick regeneration circuits | ✓ | | 2D E-fence | ✓ | |
| Electronic main control valve | ✓ | | Cab Avoidance | ✓ | |
| Automatic hydraulic oil warm up | ✓ | | Swing Assist | ✓ | |
| Heavy lift mode | ✓ | | Rear window emergency exit | ✓ | |
| | | | 360° visibility | | ✓ |

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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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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