

THE NEW CAT N320 BOOSTING EFFICIENCY

The Cat® M320 Wheeled Excavator maximizes performance with up to 16% more swing torque to get the job done faster. Save time and money with up to 10% overall savings in maintenance costs, longer service intervals, and 100% daily ground level maintenance. Combined with a comfortable working environment, the M320 keeps you working quickly and efficiently.

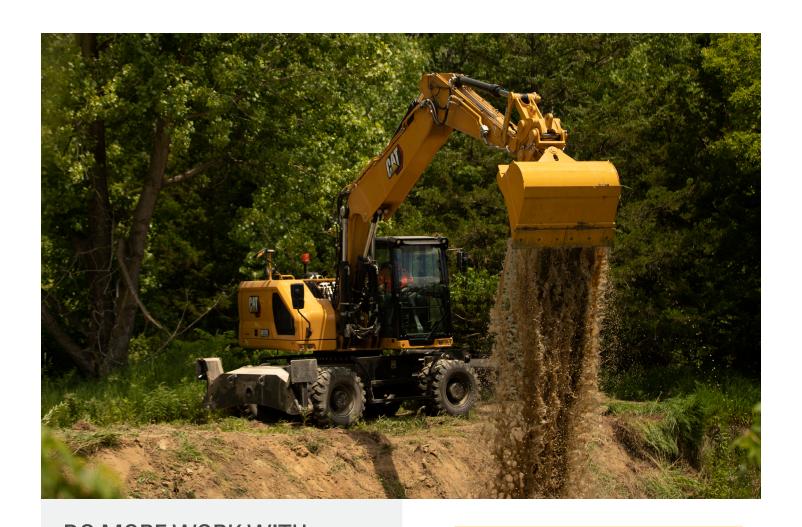


NEXT GENERATION WHEELED EXCAVATORS

The new line of Cat excavators offers more choices than ever for your business.

- LOWER OPERATING AND MAINTENANCE COSTS
- + INCREASED OPERATOR EFFICIENCY AND VISIBILITY
- + MORE IN-CAB COMFORT

Ready to help you make your business stronger, Cat next generation wheeled excavators give you new ways to get the most work done at a cost that fits your business.



Bucket Linkage Lube Boom/Stick Linkage Lube Boom/Stick Linkage Lube 100 hrs. 200 hrs. 300 hrs. 400 hrs. 500 hrs.

M320

MAXIMIZE **PERFORMANCE**

Work faster with up to 16% more swing torque with lower fuel and diesel exhaust fluid (DEF) consumption. Tiltrotator integration gives you more versatility to complete more tasks faster with one machine.

UP TO 10%LOWER MAINTENANCE COSTS

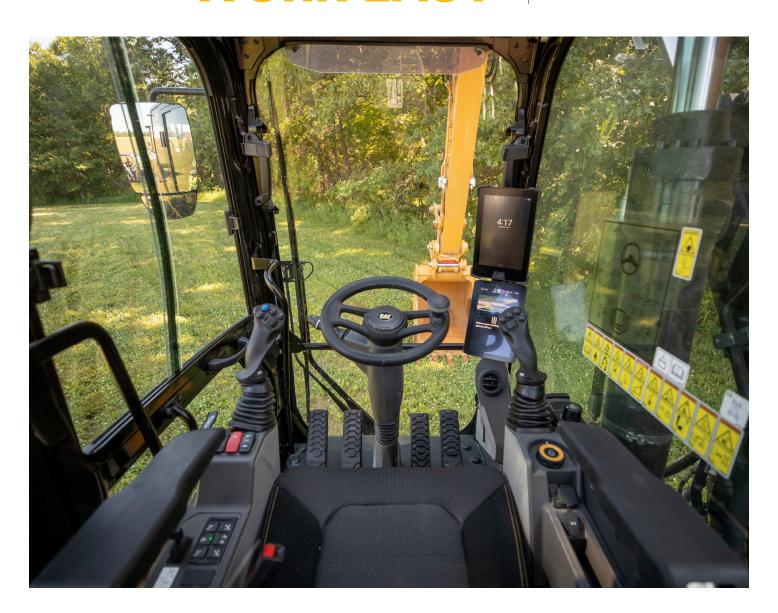
Fewer maintenance costs, combined with 100% daily ground-level maintenance and extended service intervals, increase uptime and keep overall costs down.

ENHANCED CAB COMFORT

Operate comfortably with the ergonomic control layout and cab options. Get better visibility with rearand side-view cameras and an optional 360° machine view system.

NEW CAB DESIGN MAKES HARD WORK EASY

Comfort and movement efficiency help keep you productive and alert all shift long. A tip-up left console lets you get in and out of the cab easily, and the standard seat is wide and adjustable for operators of virtually any size.



ERGONOMIC CONTROL LAYOUT

Controls are easy to reach, allowing you to operate comfortably with minimal twists and turns.

REDUCED CAB VIBRATIONS

Work more comfortably with reduced cab vibrations from advanced viscous mounts. The standard rollover protective structure (ROPS) cab meets ISO 12117-2:2008 requirements and helps block outside noise.

BLUETOOTH® CONNECTION

Bluetooth-integrated radio allows for seamless mobile phone connection to listen to music, podcasts, and hands-free calling.



OPTIONAL TECHNOLOGIES INCLUDE:



CAT GRADE WITH 2D

Cat Grade with 2D helps operators reach grade faster. Onboard processors and sensors provide real-time guidance on distance to grade without guesswork. Work safer with fewer ground personnel needed to check the work area for obstacles or grade. All Cat Grade systems are compatible with radios and base stations from Trimble.

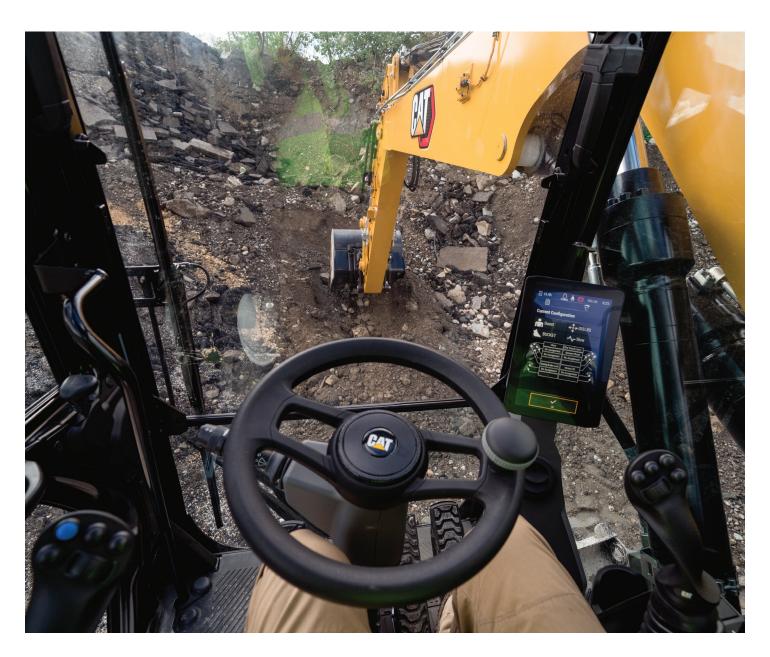


CAT PAYLOAD

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.

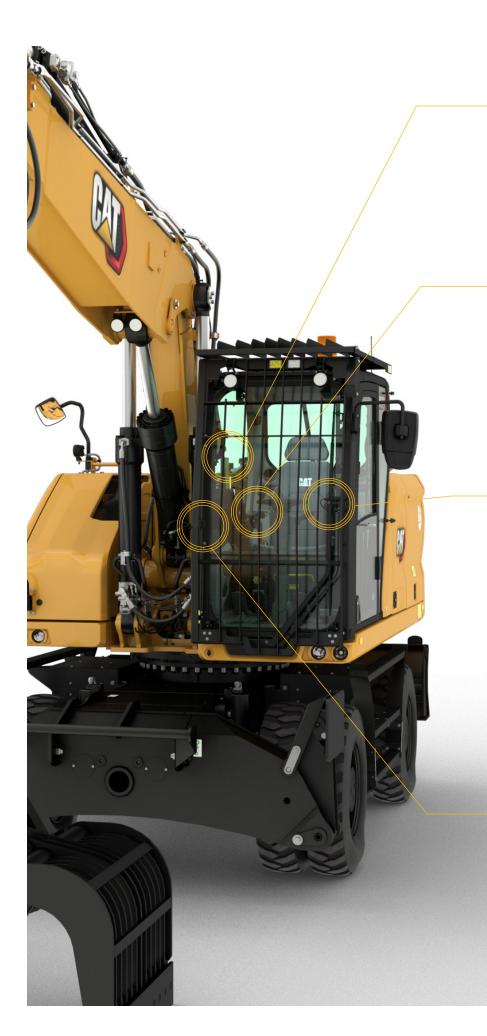
Cat technology gives you the edge. Operators of all experience levels will dig, load, and grade with more confidence, speed, and accuracy to save time and money.

CAT TECHNOLOGY MORE WORK, LESS TIME



GET JOBS DONE FASTER WITH LESS REWORK

Cat Grade with Advanced 2D lets you create and edit grade designs with ease on a second high-resolution 240 mm (10 in.) touchscreen monitor. Cat Grade with 3D adds real-time, pinpoint positioning using GPS and GLONASS. Already invested in a grade infrastructure? You can install grade systems from Trimble.





POWER MODES

Set and store your power mode preference using operator ID. Owners can lock in the mode they want their operators to use to help manage fuel consumption.



KEYLESS PUSH TO START

The M320 uses a keyless push-button engine start. This adds security for the machine by using operator ID codes to limit and track machine access. Codes can be entered manually or via an optional Bluetooth key fob.



CUSTOMIZABLE JOYSTICKS

Joystick function can be customized through the monitor. Joystick pattern as well as response can be set to match operator preference. All preferences are saved with the operator ID and restored at login. 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.



TOUCHSCREEN MONITOR

Most machine settings can be controlled through the high resolution 203 mm (8-inch) touchscreen monitor. It offers 42 languages and is easy to read from the seat.

SMARTBOOM™

SmartBoom[™] lets the boom freely travel up and down without using any pump flow, so operators can focus on attachment control and have a smoother cycle.

AUTO AXLE LOCK WITH AUTO BRAKE

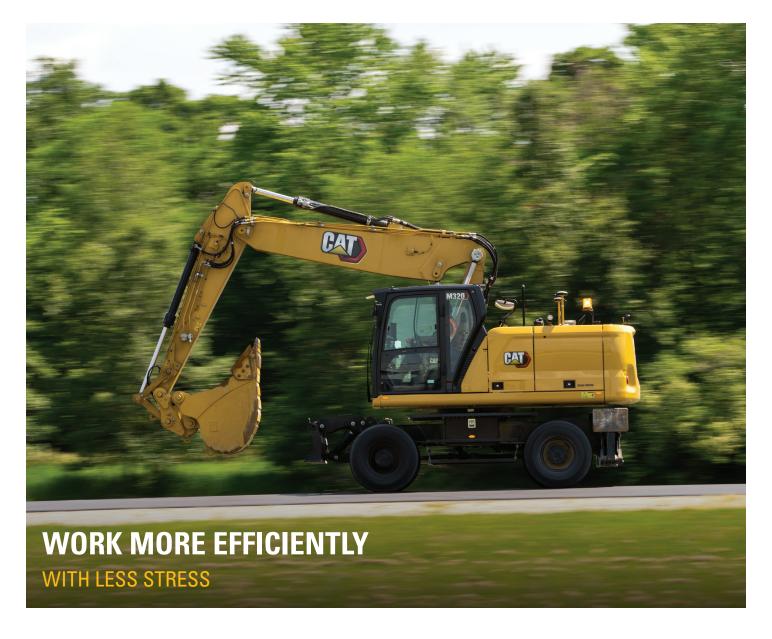
The axle locks at zero speed and unlocks when the travel pedal is activated. The axle can also be manually locked with a button on the right-hand console. Auto axle brake lock automatically activates the service brake and locks axle oscillation. It is activated when the travel pedal is in neutral and the machine speed is near zero.

RIDE CONTROL

The ride control system lets you travel faster over rough terrain with improved ride quality. Accumulators act as shock absorbers to help make your journey smoother.

JOYSTICK STEERING

Keep both hands on the joysticks while simultaneously moving the boom and stick and repositioning the machine with the slider switch on the right joystick.



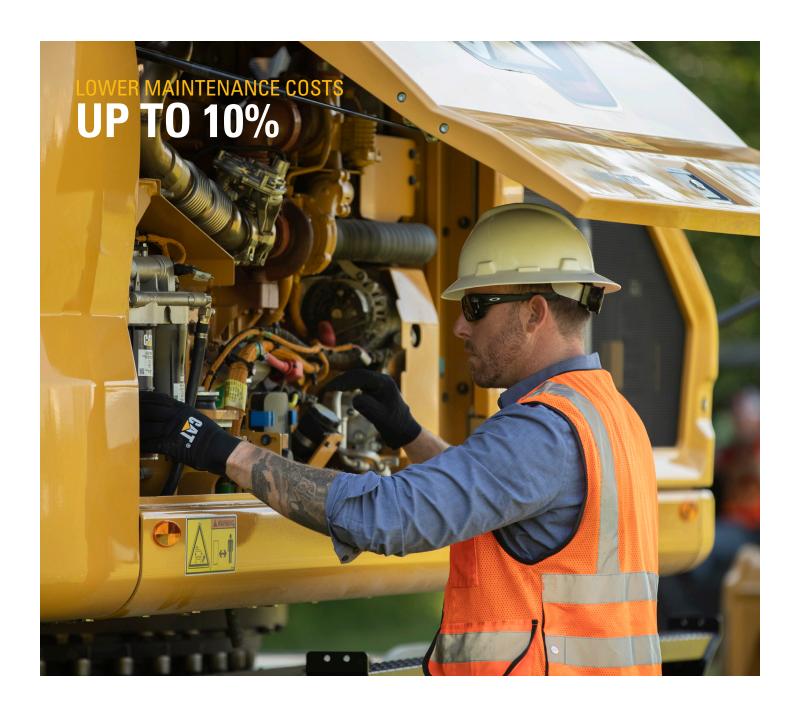
EXPAND YOUR JOBSITE CAPABILITIES

WITH MORE SWING TORQUE AND FUEL EFFICIENCY

An increase in swing torque makes traveling, swinging, and working on slopes easy. Backfill trenches and move around your jobsite faster than before — allowing you to be more productive and finish jobs quickly. An advanced hydraulic system provides the optimum balance of power and efficiency while giving you the control you need for precise digging requirements.







DO MORE. PAY LESS.

With extended and more synchronized maintenance intervals, you get more done at a lower cost. Consolidated filter locations make service faster.

INFORMATION AT YOUR FINGERTIPS

View operating information such as fuel and oil levels as well as critical service alerts on the in-cab touchscreen monitor. Your machine's filter life and maintenance intervals are also trackable on the in-cab monitor

NEW LONGER-LASTING FILTERS

The new hydraulic oil filter provides improved filtration performance, anti-drain valves to keep oil clean when the filter is replaced, and lasts up to 50% longer than previous filter designs.

SAFETY FEATURES

LOOK OUT FOR YOUR PEOPLE AND EQUIPMENT



GROUND-LEVEL DAILY MAINTENANCE

All daily maintenance checks can be performed from ground level, making maintenance faster, easier, and safer. Checkpoints include the engine oil dipstick, fuel water separator, fuel tank water and sediment drains, and cooling system coolant level check.

UPPER PLATFORM ACCESS

The service platform design provides easy, safe, and quick access to upper platform. The steps use anti-skid punch plate to prevent slipping.

2D E-FENCE

Optional 2D E-Fence is integrated right out of the factory to prevent the excavator from moving outside operator defined setpoints.

SECURE START

Use your PIN code on the monitor or the optional Bluetooth key fob to enable the push-button start feature.

SEE THE JOBSITE AROUND YOU

Enlarged windows and improved machine layout increase visibility from the seat of the cab. Standard rearview and right-side-view cameras always keep operators aware of their surroundings. An optional 360° visibility feature is also available. Powerful, long-lasting LED lights consume minimal power, keeping you safe while working in the dark.

CAT EQUIPMENT MANAGEMENT TECHNOLOGY

TAKES THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

Cat Equipment Management technology helps take the complexity out of managing your jobsites by gathering data generated by your equipment, materials, and people and serving it up to you in customizable formats.



PRODUCT LINK™

Product Link™ collects data automatically and accurately from your assets — any type and any brand. Information such as location, hours, fuel usage, productivity, idle time, maintenance alerts, diagnostic codes, and machine health can be viewed online through web and mobile applications.



VISIONLINK[®]

Access information anytime, anywhere with VisionLink®. Use it to make informed decisions that boost productivity, lower costs, simplify maintenance, and improve safety and security on your jobsite. With different subscription level options, your Cat dealer can help you configure exactly what you need to connect your fleet and manage your business without paying for extras you don't want. Subscriptions are available with cellular or satellite reporting (or both).



Remote Services is a suite of technologies that improve your jobsite efficiency.

Remote troubleshoot allows your Cat dealer to perform diagnostic testing on your connected machine remotely, pinpointing potential issues while the machine is in operation. Remote troubleshoot helps ensure the technician arrives with the correct parts and tools the first time, eliminating additional trips to save you time and money.

Remote flash updates onboard software to potentially reduce update time by as much as 50%. You can initiate the update when convenient, increasing your overall operating efficiency.

The **Cat app** helps you manage your assets — at any time — right from your smartphone. You can see your fleet location, hours, and other information. You will get critical alerts for required maintenance, and you can even request service from your local Cat dealer.

INCREASE YOUR PRODUCTIVITY AND PROFIT WITH CAT ATTACHMENTS

You can easily expand the performance of your machine by utilizing any of the variety of Cat attachments. Each Cat attachment is designed to fit the weight and horsepower of Cat wheeled excavators for improved performance, safety, and stability.

BUCKETS



GRAPPLES



HYDRAULIC HAMMERS



MULTI-PROCESSORS



SHEARS



PULVERIZERS



TILTROTATORS



COMPACTORS



COUPLERS



TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

| ENGINE | | | |
|-------------------------------------|------------|-----------------------|--|
| Engine Model | Cat® C4.4 | | |
| Engine Power – ISO 14396:2002 | 129 kW | 174 hp | |
| Engine Power – ISO 14396:2002 (DIN) | 176 hp(Ps) | | |
| Net Power – ISO 9249:2007 | 128 kW | 171 hp | |
| Net Power – ISO 9249:2007 (DIN) | 174 hp(Ps) | | |
| Bore | 105 mm | 4 in | |
| Stroke | 135 mm | 5 in | |
| Displacement | 4.4 L | 268.5 in ³ | |
| | | | |

- Net power advertised is the power available at the flywheel when engine is equipped with fan, air cleaner, CEM exhaust gas aftertreatment, alternator, and cooling fan running at intermediate speed.
- Recommended for use up to 4500 m (14,760 ft) altitude with engine power derate above 3000 m (9,840 ft).
- Rated speed 2,200 rpm.

| HYDRAULIC SYSTEM | | |
|------------------------------|------------|------------|
| Main System – Maximum Flow | 306 L/min | 81 gal/min |
| Maximum Pressure – Equipment | 37 000 kPa | 5,366 psi |
| Maximum Pressure – Travel | 35 000 kPa | 5,076 psi |
| Maximum Pressure – Swing | 39 500 kPa | 5,729 psi |

| SWING MECHANISM | | | |
|--------------------------|-----------|---------------|--|
| Swing Speed | 9.2 | 9.2 rpm | |
| Maximum Swing Torque | 52.5 kN⋅m | 38,722 lbf-ft | |
| | | | |
| WEIGHTS | | | |
| Operating Weight Minimum | 18 800 kg | 41,450 lb | |
| Operating Weight Maximum | 21 200 kg | 46,740 lb | |

| SERVICE REFILL CAPACITIES | | | |
|-----------------------------------|--------|-----------|--|
| Fuel Tank | 470 L | 124.2 gal | |
| Diesel Exhaust Fluid (DEF) Tank | 30 L | 7.9 gal | |
| Cooling System | 31.7 L | 8.4 gal | |
| Engine Oil | 13 L | 3.4 gal | |
| Hydraulic Tank | 155 L | 40.9 gal | |
| Hydraulic System (including tank) | 270 L | 71.3 gal | |
| Final Drive | 2.5 L | 0.7 gal | |

| DIMENSIONS | | | |
|---|-----------------------|-------|--|
| Boom | VA 5260 mm (17'3") | | |
| Stick | Reach 2.5 m (8'2") | | |
| Bucket | GD 0.98 m³ (1.28 yd³) | | |
| Shipping Height (top of cab) | 3370 mm | 11'1" | |
| Support Point | 3850 mm | 11'9" | |
| Shipping Length | 8925 mm | 29'3" | |
| Tail Swing Radius | 2600 mm | 8'6" | |
| Counterweight Clearance | 1306 mm | 4'3" | |
| Ground Clearance | 420 mm | 1'5" | |
| Undercarriage Length (with blade and outrigger) | 5050 mm | 16'7" | |
| Wheel Base | 2700 mm | 8'10" | |

| WORKING RAI | NGES AND FORCES |
|-----------------------------|--|
| Boom Type | VA 5260 mm (17'3") |
| Stick | Reach 2.5 m (8'2") |
| Bucket | GD 0.98 m ³ (1.28 yd ³) |
| Loading Height | 6960 mm 22'10" |
| Cutting Height | 9950 mm 32'8" |
| Digging Depth | 6030 mm 19'9" |
| Reach at Ground Level | 9290 mm 30'6" |
| Vertical Wall Digging Depth | 4230 mm 13'11" |
| Bucket Forces (ISO) | 137 kN 30,799 lbf |
| Stick Forces (ISO) | 92 kN 20,682 lbf |
| | |

- Range values are with dual pneumatic tires (10.00-20).
- Range values are calculated with a GD bucket (CW) and CW-30 quick coupler with a tip radius of 1535 mm (5'0").

AIR CONDITIONING SYSTEM

 The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430).
 The system contains 0.85 kg of refrigerant which has a CO₂ equivalent of 1.216 metric tonnes.

STANDARD & OPTIONAL EQUIPMENT

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

| CAB | STANDARD | OPTIONAL |
|--|----------|----------|
| ROPS, advanced sound suppression (ISO 12117-2:2008) | • | |
| Deluxe cab | | • |
| Premium cab | | • |
| Auxiliary relay | | • |
| High-resolution 254 mm (10 in) LCD touchscreen monitor | • | |
| CAT TECHNOLOGY | STANDARD | OPTIONAL |
| Product Link™ | • | |
| Remote flash/troubleshoot capability | • | |
| Cat® Grade with 2D | | • |
| Cat Grade with Advanced 2D | | • |
| Cat Grade with 3D | | • |
| Cat Payload | | • |
| 2D E-Fence | | • |
| Laser catcher | | • |
| ENGINE | STANDARD | OPTIONAL |
| Power mode selector | • | |
| One-touch low idle with auto engine speed control | • | |
| Auto engine idle shutdown | • | |
| 52°C (125°F) high-ambient cooling capacity | • | |
| -18°C (0°F) cold start capability | • | |
| Double element air filter with integrated precleaner | • | |
| On-demand electric cooling fans with auto-reverse function | • | |
| Electric fuel priming pump | • | |
| HYDRAULIC SYSTEM | STANDARD | OPTIONAL |
| Automatic swing brake | • | |
| Auto hydraulic oil warm up | • | |
| Electronic main control valve | • | |
| Boom and stick drift reduction valves | • | |
| Boom/stick lowering check valves | | • |
| One-slider joysticks | • | |
| Two-slider joysticks | | • |
| Combined flow/high-pressure auxiliary circuit | | • |
| Heavy lift mode | • | |
| Quick coupler circuit | • | |
| SmartBoom™ | | • |
| Ride control | | • |
| Cat tiltrotator support | | • |
| Joystick steering | | • |
| Separate dedicated swing pump | • | |

| BOOM AND STICKS | STANDARD | OPTIONAL |
|--|----------|------------|
| 5650 mm (18'6") one-piece boom | | • |
| 5260 mm (17'3") variable adjustable boom | | • |
| 2500 mm (8'2") stick | | • |
| 2900 mm (9'6") stick | | • |
| UNDERCARRIAGE AND STRUCTURES | STANDARD | OPTIONAL |
| 10.00-20 16 PR, dual tires | | • |
| 11.00-20- 16 PR, dual tires | | • |
| 315/70R 22.5, no gap dual tires | | • 1 |
| 445/70R 19.5, single tires | | • |
| All wheel drive | • | |
| Automatic brake/axle lock | • | |
| 3600 kg (7,937 kg) counterweight | | • 1 |
| 4200 kg (9,259 lb) counterweight | | • |
| Fenders, front and rear, synthetic | • | |
| ELECTRICAL SYSTEM | STANDARD | OPTIONAL |
| LED lights on boom and cab | • | |
| LED lights on chassis (left-hand, right-hand) and counterweight | • | |
| Roading and indicator lights, front and rear | • | |
| Maintenance-free batteries | • | |
| Centralized electrical disconnect switch | • | |
| Electrical refueling pump | | • |
| SERVICE AND MAINTENANCE | STANDARD | OPTIONAL |
| Sampling ports for Scheduled Oil Sampling (S•0•S SM) | • | |
| Automatic lubrication system for implement and swing system | | • |
| SAFETY AND SECURITY | STANDARD | OPTIONAL |
| Rear- and right-side-view cameras | • | |
| 360° visibility | | • |
| Wide angle mirrors | • | |
| Ground-level engine shutoff switch | • | |
| Anti-skid plate and countersunk | | |
| bolts on service platform | | |

¹Europe only.

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

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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AEX 0.3157-02 Replaces: AEX 0.3157-01 Build Number: 07C (Aus-NZ, Eur, Turkey, N Am)

