CAT® MEDIUM WHEEL LOADER

TECHNOLOGIES



CAT® MEDIUM WHEEL LOADER TECHNOLOGIES

AVAILABLE FOR SELECT MODELS*

**Consult your Cat Dealer for details.*

Cat® Technologies are designed to provide practical and reliable solutions that work effectively across various job sites. These solutions help maximize productivity, enhance safety, and minimize costs. Whether your fleet consists of one machine or many, Cat technologies give you the competitive edge you need to succeed.



FACTORY-INTEGRATED TECHNOLOGY

The technology designed for Cat wheel loaders has been specifically created, built, and tested to ensure optimal performance. You can expect seamless functionality that cannot be achieved with third-party add-ons.

+ A wide range of technology options are available to enhance operator safety, comfort, and performance.
+ Track production right from the cab or remotely using Cat technologies with VisionLink™.
+ Experienced operators can benefit from reduced strain, less fatigue, and faster, more accurate results.

CAT TECHNOLOGY

ELEVATE OPERATOR PRODUCTIVITY

Unlock your equipment's full potential by optimizing every bucket and operational hour with Cat technology. Experience increased efficiency and performance that will elevate your projects to new heights!



CAT PAYLOAD

LOAD EVERY TRUCK RIGHT THE FIRST TIME



Cat Payload provides operators with on-the-go weighing to help them hit load targets and avoid overloading, underloading, or misloading materials. Advanced Payload* is a system upgrade that offers expanded features and capabilities, including custom tags, daily totals, and electronic ticketing. Combine Payload with VisionLink™ to analyze jobsites and individual assets for remote management of production targets and key metrics.

+ **Reduce Costs:** Save on time, labor, and fuel costs.
+ **Improve Accuracy:** Precise payload targets help eliminate over and underloading.
+ **Increase Efficiency:** Experienced operators work more accurately than ever, while new operators can get up to speed faster.
+ **Enhance Safety:** Helps prevent truck overloading, which creates heavier and more unstable loads.

**Advanced Payload requires an additional software license (SEA).*

ADVANCED PAYLOAD

Advanced Payload is a system upgrade that offers expanded features and capabilities.

+ **Tip-Off Assist** adds automation to the final bucket process.
+ **Multitask** mode tracks multiple loading processes simultaneously.
+ **Recipe** mode tracks multiple processes including split bodies and material targets for batches, blends and mixes.
+ Add **Dispatch for Loading*** to integrate the loader into the scale house process.
+ **Daily Totals:** Operators can easily access detailed payload reports using the in-cab display. They have the flexibility to view reports for the current day, the previous day, or since the last reset. Additionally, operators can conveniently check report totals categorized by truck, material, or custom lists.
+ **E-Tickets:** Gain the convenience of receiving payload tickets via email instead of printed versions. Upgrade to a VisionLink™ Productivity subscription to unlock this feature.

PAYLOAD FOR TRADE – ONLY AVAILABLE IN SPECIFIC REGIONS

The Cat Payload for Trade option for Cat Advanced Payload allows you to integrate the scale data directly into your business processes. Payload for Trade is type approved by the International Organization of Legal Metrology, while retaining all the features of the standard version of Cat Advanced Payload.

During the verification process, key metrological relevant components are sealed to avoid tampering. A second, non-certified, scale mode remains available for different tasks, if required. Cat Payload for Trade is available in Europe and Australia.*

** Subscription and compatible scale house software required.*

*** Country certifications vary. Contact your Cat dealer for more information.*





SAFETY-FOCUSED TECHNOLOGIES

PRIORITIZE SAFETY ON YOUR JOBSITE

Maintaining a safe jobsite is crucial for maximizing productivity and minimizing costs. Cat safety technologies help lower risks, allowing operators to perform their tasks effectively.

SEAT BELT REMINDER

The Cat Seat Belt Reminder uses audible and visual alerts to ensure operators stay buckled while operating equipment. This technology detects when the seat belt should be in use by monitoring the machine's seat belt buckle.

+ **Helps to Improve Jobsite Safety:** Operators are prompted through audible and visual alerts to stay buckled up, helping to reduce the risk of fatal accidents.
+ **Increased Monitoring:** Safety incidents are captured through VisionLink™ to keep site managers aware of safety compliance.
+ **Optional External Beacon:** An optional, external beacon provides a visual alert for those on site to easily monitor potentially unsafe situations. The beacon illuminates while the machine is in motion and the seat belt is buckled.

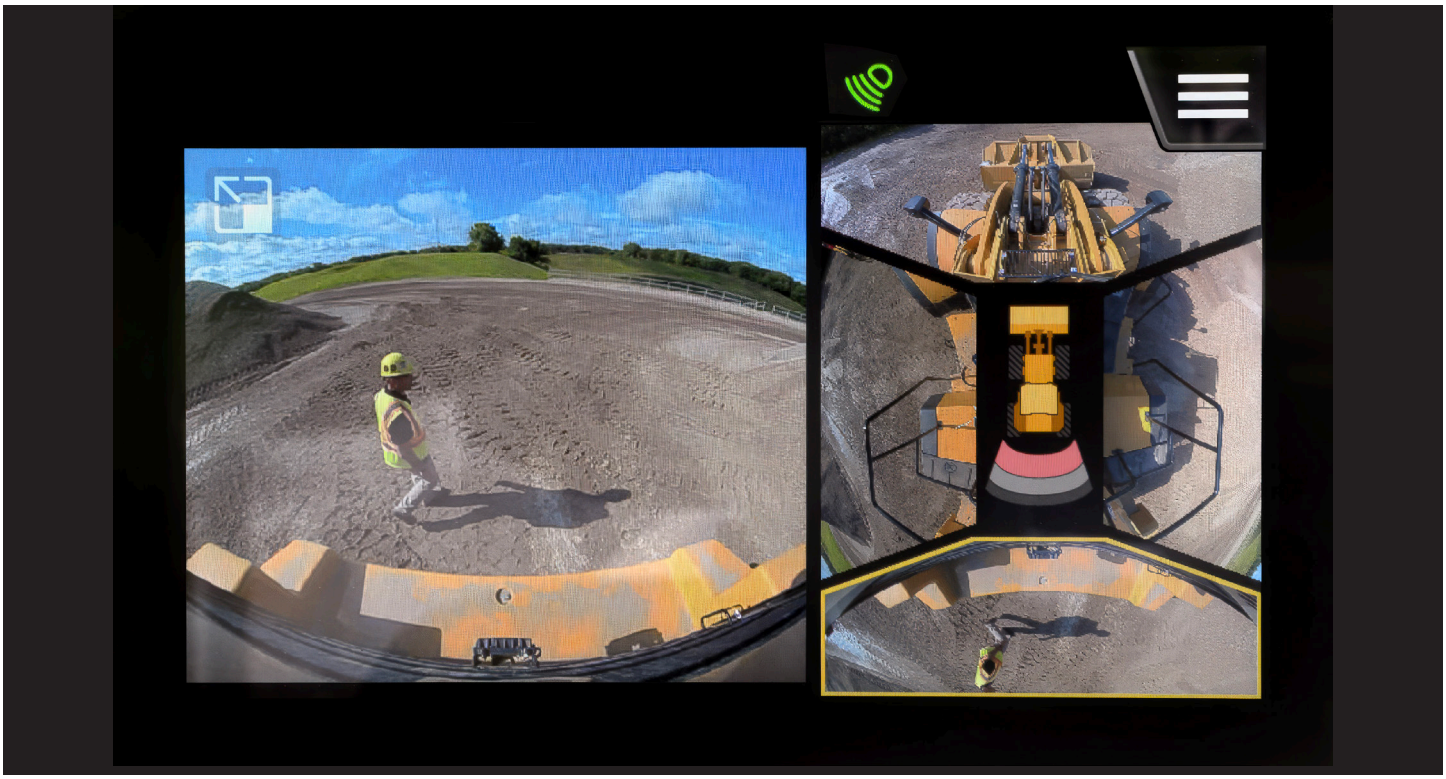
CAT DETECT CAMERA SYSTEMS

While Cat wheel loaders are designed to maximize operator visibility, it can be challenging to constantly monitor what goes on around them. Cat Detect camera systems scale with your jobsite needs to provide increased visibility and help you manage ever-changing conditions that pose unexpected risks that potentially lead to injury or repair costs.

INCREASE OPERATOR VISIBILITY AND AWARENESS

CAT DETECT WITH SURROUND VISION

The Surround Vision system uses three additional, external cameras and an in-cab dedicated display to provide an overview of the whole area around the machine. Operators can use this optional system to identify potential hazards and help prevent incidents.



ENHANCE JOBSITE SAFETY

+ The system provides operators with simultaneous views from the front, rear, left, and right cameras.
+ Included are three additional cameras that display a surround view optimized for rear, front, and side visibility.
+ Reverse movement prompts rear camera to show larger view on the display.
+ Increases awareness of blind spots and critical safety areas, such as around the hitch, that pose potential threats.
+ Avoid accidents that possibly result in worker injuries or jobsite shutdowns.
+ Complements other Cat Detect systems to increase vision around the machine.

WHAT CAN SURROUND VISION DO FOR ME?

+ Greater worksite visibility reduces blind spots, injuries, and repair costs.
+ Cameras help minimize on-the-ground personnel, reducing labor costs.
+ The in-cab display allows operators to easily see from all sides of their cab, increasing comfort and productivity.

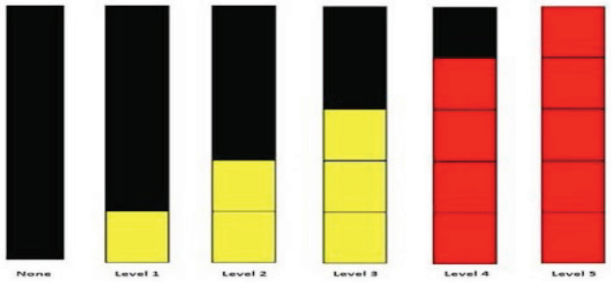
COLLISION MITIGATION SYSTEM

HELP IMPROVE WORKER SAFETY ON THE GROUND

Cat Detect - Collision Mitigation System* is an operator assist feature designed to enhance situational awareness when reversing the machine. It utilizes an integrated and intelligent sensor array to provide reverse collision warnings, detect people**, inhibit motion, and enable automatic emergency braking. Additionally, visibility into event data and safety trends is available through VisionLink™.

COLLISION WARNING

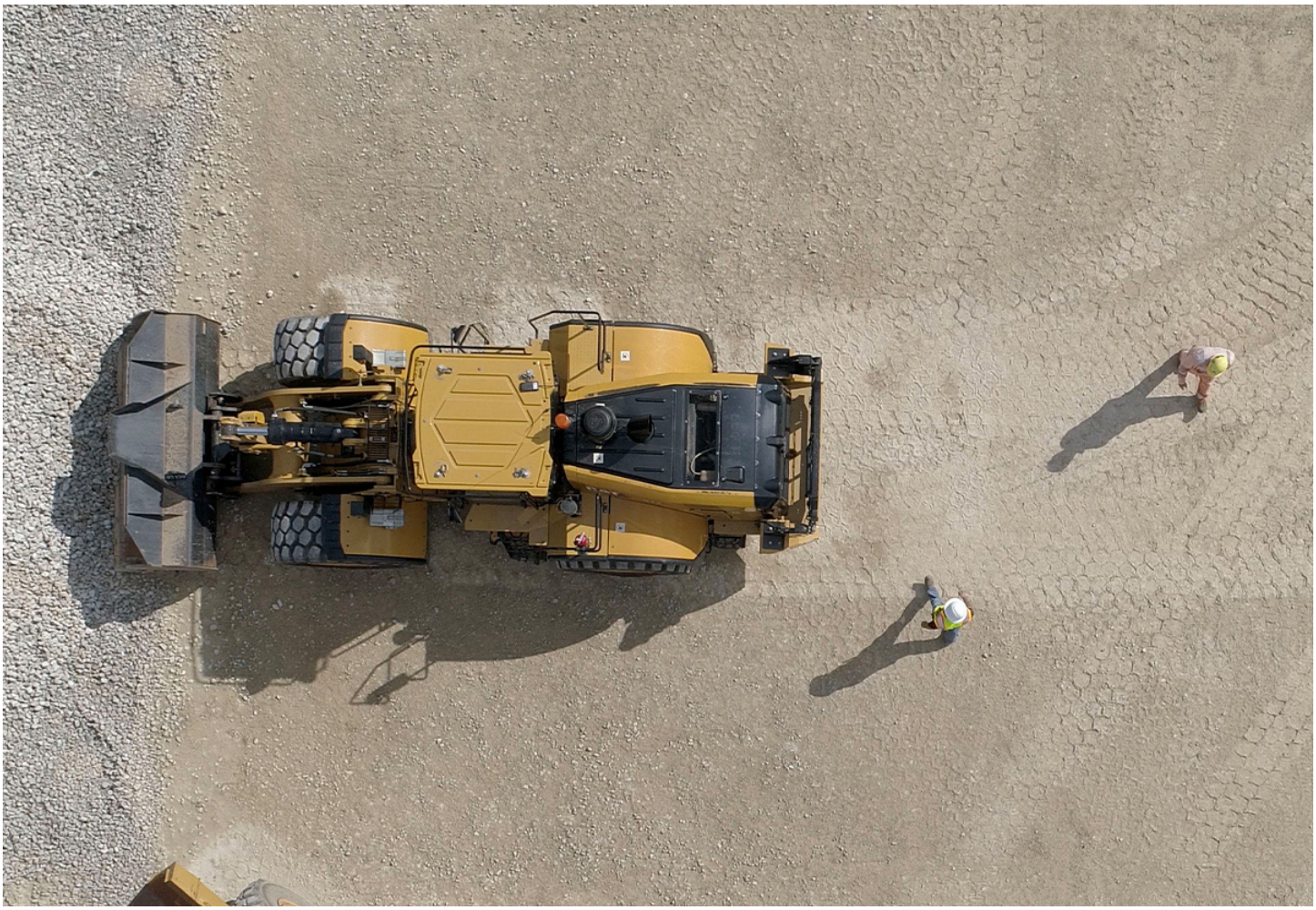
Radar specifically targets collision potentials that emerge behind the machine. Audible and visual alerts can deliver the power to see, mitigate and manage hazards that may otherwise go undetected by operators. Three detection zones provide approximate distance to the anticipated path of the machine – awareness, caution, and critical alarm zone.



Warning levels change with ground speed, reducing "nuisance" alarms and increasing operator acceptance and awareness.

** Collision Mitigation System is not available on GC models.*

*** The system may not detect people in certain circumstances, such as people lying down or crouching, or when cameras are impaired by low light conditions (dusk, dawn, overcast), inclement weather (snow, rain, fog), or other similar conditions.*



COLLISION MITIGATION SYSTEM

TECHNOLOGY FEATURES

PEOPLE DETECTION

People Detection utilizes a smart camera to alert the operator when a person is detected behind the machine. Three levels of alerts dynamically adjust based on a person's proximity to the machine. Detected people are highlighted by the grapical display to confirm detections and increase operator confidence. An optional, external bystander alarm alerts ground workers to the collision potential.

MOTION INHIBIT

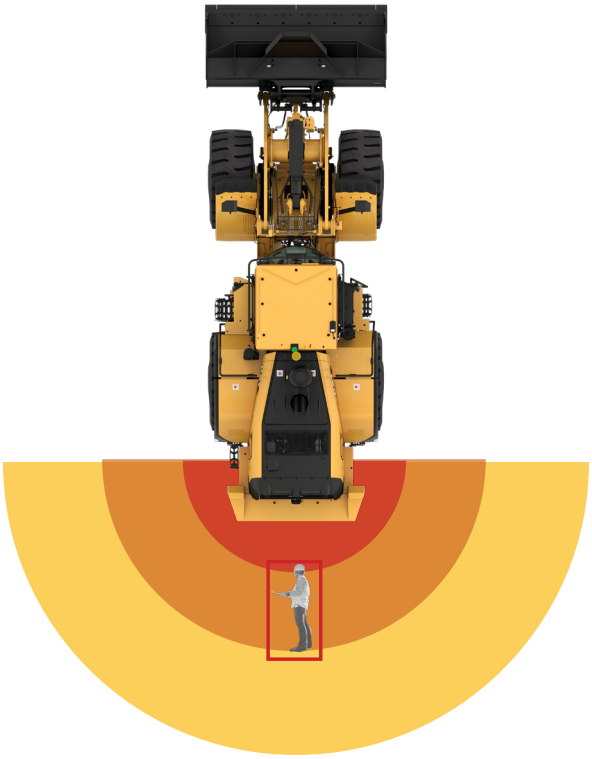
When the machine is stationary for at least 10 seconds and the rear detection system detects a collision potential, Motion Inhibit will prevent the machine from reversing. This function includes a multi-step override.

AUTOMATIC EMERGENCY BRAKING

When the machine is reversing, a critical zone collision potential is detected and the operator fails to take evasive action, emergency brakes will automatically engage. When the collision potential is no longer detected within the critical zone, machine control is returned to the operator. This function includes a multi-step override.

SAFETY EVENT MONITORING*

When someone is detected within the critical zone, an operator alert is triggered, and the event data is transmitted in real-time to VisionLink. This allows you to monitor detection frequency and identify opportunities that can help inform continuous improvement toward safety outcomes that are important to you and your team.



DETECTION ZONES

Critical Zone (Red)

Caution Zone (Amber)

Awareness Zone (Yellow)



COLLISION WARNING ICONS

- Emergency Braking Event
- Collision Warning - Critical Zone
- Collision Warning - Caution Zone
- Collision Warning - Enabled

AUTO BRAKE ICONS

- Auto Brake - Fault
- Auto Brake - Active
- Auto Brake - Disabled
- Auto Brake - Enabled

** VisionLink subscription and compatible Product Link hardware required. Availability may vary by region, consult your Cat Dealer for more details.*



CAT COMMAND

ENHANCE OPERATOR SAFETY

Cat Command is a sophisticated remote control system that takes operators off the machine and away from potential dangers when working with hazardous materials or in unsafe conditions. It also maintains the option to utilize other advanced control technologies, such as Cat Payload, and other machine-specific assist features.

Once operators become familiar with the feel of the remote control system, they can operate as efficiently, accurately, and confidently as in the cab. Because they experience dramatically less noise and no vibration, operators can work efficiently for longer periods of time with less fatigue.

TWO SYSTEMS TO MATCH JOB NEEDS

CAT COMMAND CONSOLE
(LINE-OF-SIGHT)

Portable, lightweight system allows the user to work outside of the cab while remaining on site and in direct visual contact with the machine.

+ Ideal for short-term and emergency use.
+ Requires no on-site communications infrastructure.
+ Provides line-of-sight operation from up to 400 meters (1,312 ft) away.



Over The Shoulder Harness Not Shown

CAT COMMAND STATION
(NON-LINE-OF-SIGHT)

Enables the operator to work remotely in a seated indoor "virtual cab" located on site or miles away.

+ Helps reduce operator fatigue with a comfortable working environment.
+ High quality video delivers a clear view of the work area.
+ Select and activate machine features: Payload, Assist & more.





EQUIPMENT & JOBSITE MANAGEMENT

LISTEN TO YOUR FLEET WITH THE RIGHT TECHNOLOGY

Track material types and tonnage moved, fuel costs, and machine hours. Pull payload data for analysis and compare productivity between shifts.

MAXIMIZE LIFE SPAN

Monitor equipment health, fault codes, and fluid analysis, and keep track of inspection due dates. Order parts and schedule service, all within the same platform.

MINIMIZE DOWNTIME

Reduce unplanned downtime with critical alerts and service-interval reminders to keep you on top of maintenance.

CAT INSPECT

Cat Inspect allows you to access your equipment data on your mobile device. This easy-to-use app lets you capture inspection data and integrates with your other Cat data systems so you can keep a close eye on your fleet.

+ **Populates Current Fleet Data**
  Save time with auto-populated equipment information and data.
+ **VisionLink™ Integration**
  Inspection results can be viewed in Cat equipment management applications, making it easier to track machine health.
+ **Save Time with Digital Inspections**
  Digital inspections provide current information for review, retention, sharing, and printing.

CAT REMOTE SERVICES

Cat Remote Services is a suite of technologies that improve jobsite efficiency. Two of its key functions are Remote Troubleshoot and Remote Flash.

+ **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 troubleshooting helps to ensure the technician arrives with the correct parts and tools the first time, eliminating additional trips to save you time and money.
+ **Remote Flash**
  Allows you to update onboard software without a technician being present, allowing you to initiate software updates when convenient, increasing your overall operating efficiency.



VISIONLINK™

MACHINE AND JOBSITE DATA AT YOUR FINGERTIPS

VisionLink™ is a flexible and scalable cloud-based application designed to monitor all aspects of your operations, whether for individual machines or multiple interconnected job sites. It analyzes the collected data to provide insights into fleet utilization, identifies potential friction points, and tracks payload production data. With VisionLink, you can make informed decisions that enhance operational efficiency and boost profits.



MAXIMIZE UPTIME

Monitor equipment health, fault codes, fluid analysis, and inspection due dates. Reduce unplanned downtime with critical alerts. Order parts and schedule service within the platform.

ANALYZE PRODUCTION

Track material types and tonnage moved, fuel costs & machine hours. Pull performance data for analysis and compare productivity between shifts.

OPTIMIZE UTILIZATION

Manage assets by projects, groups, or geofences. Set utilization targets and monitor performance. Make informed, data-based decisions to reduce operating costs.

PRIORITIZE SAFETY

Enhance operator awareness and worker vigilance on job sites by utilizing situational awareness alerts to mitigate risks and improve safety protocols.



CAT MEDIUM WHEEL LOADER TECHNOLOGIES

MAXIMIZE PRODUCTIVITY, ENHANCE SAFETY, LOWER COSTS



When you select Cat equipment and technology, you benefit from the support of the largest and most experienced dealer network in the industry.

You gain a partner committed to assisting you and your operation at every stage. Whether you require expert advice or emergency service, your Cat dealer is there for you from day one.

Cat Medium Wheel Loader Technologies May Vary by Region and Model. Consult Your Cat Dealer for Details.

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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(Global)

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