

COLLISION WARNING SYSTEM FOR MEDIUM WHEEL LOADERS

CAT DETECT



FOR EARLY IDENTIFICATION AND MITIGATION OF JOBSITE HAZARDS.

- Collision Warning System is a safety system that utilizes three technologies--Rear Object Detection, Rear View Camera with People Detection, and Motion Inhibit--to help motivate behavior change and increase situational awareness of the jobsite.
- Audible and visual alerts can deliver the power to see, mitigate and manage hazards that may otherwise go undetected.
- This system specifically targets collision potentials that emerge behind the machine--three detection zones based on proximity. Increase efficiency and productivity through reduction in time, fuel, and passes.
- Enhanced blind spot awareness helps to reduce the risk of struck-by incidents.



DETECTION ZONES

Red Zone (Critical)

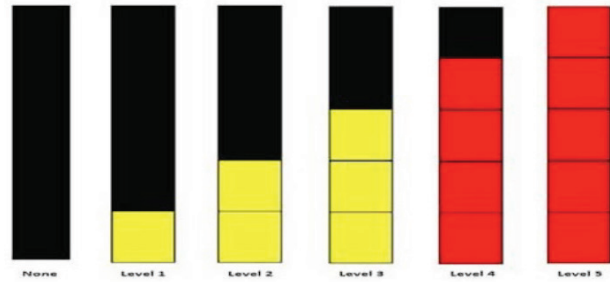
Amber Zone (Caution)

Yellow Zone (Awareness)



REAR OBJECT DETECTION

- Radar sensors provide the operator with monitoring behind the machine to boost jobsite confidence and awareness.
- Audible and visual alerts help to reduce the risk of collisions with static and moving objects.
- System alerts you when an object is in the critical zone behind the machine while in neutral or reverse.
- Warning levels (1-5) change with ground speed, reducing “nuisance” alarms and increasing operator acceptance and awareness.



PEOPLE DETECTION

- People Detection is an intelligent vision camera system that can alert an operator when someone enters within a machine’s hazard zone.
- This system differentiates people from background objects and can detect multiple moving and stationary workers at once.
- Three levels of alerts dynamically adjust based on a person’s proximity to the machine.
- System highlights people in red bounding boxes on the in-cab monitor to help operators more quickly manage potential risks.
- Utilizes one camera with up to 180-degree coverage - detection distance of 8 meters off the machine centerline and 16 meters behind the machine.*

* Detection distance is an approximate range for each camera.

MOTION INHIBIT

- Motion Inhibit works with Rear Object Detection and People Detection to provide extra safety around stationary machines.
- When the machine is stationary for a short time, Motion Inhibit automatically prevents direct reverse gear engagement if hazards are detected.
- If the operator goes back into neutral and the danger is gone, the machine can then reverse.

LEARN MORE

- Collision Warning System is available on a growing range of Cat wheel loaders. For more information, contact your local Cat dealer.