

Warehouse Automation: Robots, AGVs and Worker Interaction Safety Meeting Kit

WHAT'S AT STAKE

Automation has changed warehouses fast, putting robots and AGVs right alongside people on the floor. These systems move quietly, follow programmed paths, and don't think or react like humans do, which means one missed signal or unexpected movement can put a worker in harm's way. When people and automated equipment share the same space, safety depends on awareness, clear rules, and knowing exactly how to work with the technology instead of around it.

WHAT'S THE DANGER

In automated warehouses, danger often comes from predictability. Robots and AGVs follow programmed routes and rules, not human judgment, so they won't anticipate sudden movements, shortcuts, or distractions the way a person might.

Why Automation Creates New Risks

AGVs and robots move quietly, have limited stopping distance, and may have blind zones created by loads, racks, or layout changes. Workers can misjudge their speed or assume the system will stop automatically, which can lead to struck-by or caught-between incidents.

Common Automation Hazards

- Workers being struck by or pinned by AGVs or robots
- Entering robot operating zones without proper authorization
- Loads shifting or falling from automated systems
- Sensors not detecting obstacles due to obstructions or

misalignment

- Unexpected startup or movement during maintenance or resets

When Risk Increases

Risk rises when workers are distracted, shortcuts are taken, floor layouts change, warning systems are ignored, or people assume automation is “smart enough” to avoid them.

HOW TO PROTECT YOURSELF

Working around robots and AGVs means adjusting how you move, think, and interact on the floor. These systems do exactly what they’re programmed to do, every time, so protecting yourself comes down to awareness, boundaries, and following the rules that keep people and automation safely separated.

Know the System Before You Step into the Area

Understand where robots and AGVs operate, their normal travel paths, and how they behave when something enters their zone. Automation doesn’t improvise, so knowing its patterns helps you avoid surprises.

Respect Robot and AGV Zones

- Stay out of marked robot operating areas unless authorized
- Never step into an AGV path assuming it will stop in time
- Follow floor markings, gates, lights, and audible warnings
- Use designated pedestrian walkways whenever possible

Don’t Assume the System Sees You

Sensors can be blocked by loads, racks, or layout changes. Quiet movement and blind zones mean an AGV, or robot may not detect you when you expect it to. Always make eye contact with human operators when applicable and keep a safe buffer from moving equipment.

Slow Down and Stay Alert

Distraction is one of the biggest risks in automated environments.

Avoid phones, rushing, or shortcuts, especially in shared zones. Small missteps can put you directly in the path of moving equipment.

Follow Lockout and Access Controls During Maintenance

Never enter robot cells or AGV areas during maintenance or troubleshooting unless proper lockout, isolation, and authorization are in place. Unexpected startup is a serious hazard around automation.

What to Do If Something Feels Unsafe

If an AGV behaves erratically, sensors seem blocked, alarms activate, or the layout has changed, stop and create distance. Report the issue immediately and don't try to "work around" automation problems. In automated warehouses, speaking up early prevents serious struck-by and caught-between incidents.

FINAL WORD

Automation improves efficiency, but it doesn't replace the need for human awareness. Respect robot zones, follow the rules, and never assume the system will protect you because staying alert is what keeps people safe in automated warehouses.
