

Safety Rules



Danger

Failure to obey the instructions and safety rules in this manual will result in death or serious injury.

Do Not Operate Unless:

- You learn and practice the principles of safe machine operation contained in this operator's manual.

1 Avoid hazardous situations.

Know and understand the safety rules before going on to the next section.

2 Always perform a pre-operation inspection.

3 Always perform function tests prior to use.

4 Inspect the workplace.

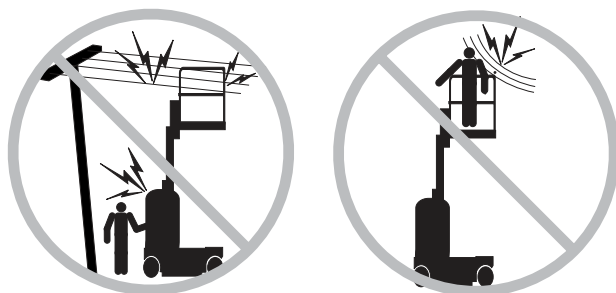
5 Only use the machine as it was intended.

- You read, understand and obey the manufacturer's instructions and safety rules—safety and operator's manuals and machine decals.
- You read, understand and obey employer's safety rules and worksite regulations.
- You read, understand and obey all applicable governmental regulations.
- You are properly trained to safely operate the machine.

SAFETY RULES

Electrocution Hazards

This machine is not electrically insulated and will not provide protection from contact with or proximity to electrical current.



Maintain safe distances from electrical power lines and apparatus in accordance with applicable governmental regulations and the following chart.

| Voltage Phase to Phase | Minimum Safe Approach Distance | |
|---------------------------|-----------------------------------|--------|
| | Feet | Meters |
| 0 to 300V | Avoid Contact | |
| 300V to 50KV | 10 | 3.05 |
| 50KV to 200KV | 15 | 4.60 |
| 200KV to 350KV | 20 | 6.10 |
| 350KV to 500KV | 25 | 7.62 |
| 500KV to 750KV | 35 | 10.67 |
| 750KV to 1000KV | 45 | 13.72 |

Allow for platform movement, electrical line sway or sag and beware of strong or gusty winds.

Keep away from the machine if it contacts energized power lines. Personnel on the ground or in the platform must not touch or operate the machine until energized power lines are shut off.

Do not operate the machine during lightning or storms.

Do not use the machine as a ground for welding.

Tip-over Hazards

Occupants, equipment and materials must not exceed the maximum platform capacity or the maximum capacity of the platform extension. Weight in trays and in each bike rack is part of the total platform load.

| Maximum capacity - GR-12 and GR-15 | | |
|------------------------------------|---------|--------|
| Standard platform | | |
| Platform without extension | 500 lbs | 227 kg |
| Platform retracted | 500 lbs | 227 kg |
| Platform extended - Platform only | 250 lbs | 113 kg |
| Platform extended - Extension only | 250 lbs | 113 kg |
| Work station tray (option) | 50 lbs | 22 kg |
| Parcel tray (option) | 150 lbs | 68 kg |
| Maximum occupants | | 1 |



500 lbs / 227 kg



Extension only
250 lbs / 113 kg

Platform only
250 lbs / 113 kg

| Stock Picker platform | | |
|------------------------------------|---------|--------|
| Platform capacity | 500 lbs | 227 kg |
| Adjustable work station tray | 150 lbs | 45 kg |
| Parcel tray (option) | 150 lbs | 68 kg |
| Bike rack (option) (each) | 45 lbs | 20 kg |
| Maximum occupants | | 1 |
| AWP and fiberglass platform | 350 lbs | 159 kg |
| Maximum occupants | | 1 |

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Maximum capacity - GR-20

Standard platform

| | | |
|------------------------------------|---------|--------|
| Platform without extension | 350 lbs | 159 kg |
| Platform retracted | 350 lbs | 159 kg |
| Platform extended - Platform only | 100 lbs | 45 kg |
| Platform extended - Extension only | 250 lbs | 113 kg |
| Maximum occupants | 1 | |



350 lbs / 159 kg



Extension only 250 lbs / 113 kg
Platform only 100 lbs / 45 kg

Stock Picker platform

| | | |
|------------------------------|---------|--------|
| Platform capacity | 350 lbs | 159 kg |
| Adjustable work station tray | 150 lbs | 45 kg |
| Bike rack (option) (each) | 45 lbs | 20 kg |
| Maximum occupants | 1 | |

| | | |
|------------------------------------|---------|--------|
| AWP and fiberglass platform | 350 lbs | 159 kg |
|------------------------------------|---------|--------|

| | | |
|-------------------|---|--|
| Maximum occupants | 1 | |
|-------------------|---|--|

Do not raise the platform unless the machine is on a firm, level surface.



Do not depend on the tilt alarm as a level indicator. The tilt alarm sounds only when the machine is on a slope.

If the tilt alarm sounds:
Lower the platform immediately. Move the machine to a firm, level surface. If the tilt alarm sounds when the platform is raised, use extreme caution to lower the platform.

Do not alter or disable the limit switches.

Do not drive over 0.5 mph / 0.8 km/h with the platform raised.

Use extreme care and slow speeds while driving the machine in the stowed position across uneven terrain, debris, unstable or slippery surfaces and near holes and drop-offs.

Do not drive the machine on a slope that exceeds the slope and side slope rating of the machine. Slope rating applies to machines in the stowed position.

Maximum slope rating, stowed position 30% (17°)

Maximum side slope rating, stowed position 30% (17°)

Note: Slope rating is subject to ground conditions and adequate traction.



SAFETY RULES

Do not use the platform controls to free a platform that is caught, snagged or otherwise prevented from normal motion by an adjacent structure. All personnel must be removed from the platform before attempting to free the platform using the ground controls.

Do not push off or pull toward any object outside of the platform.

Maximum allowable side force

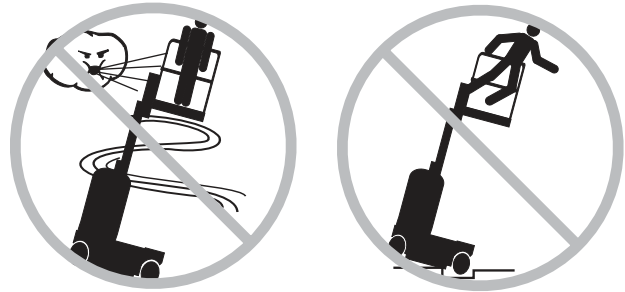
ANSI/CSA
100 lbs / 445 N

Maximum allowable manual force

AUS
45 lbs / 200 N



Do not operate the machine in strong or gusty winds. Do not increase the surface area of the platform or the load. Increasing the area exposed to the wind will decrease machine stability.



Do not drive the machine on or near uneven terrain, unstable surfaces or other hazardous conditions with the platform raised.

Do not replace items critical to machine stability with items of different weight or specification.

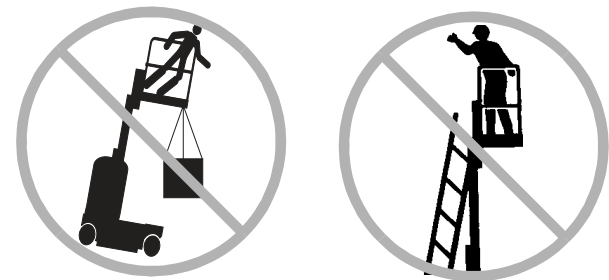
Do not use the machine on a moving or mobile surface or vehicle.

Do not transport tools and materials unless they are evenly distributed and can be safely handled by person(s) in the platform.

Do not alter or disable machine components that in any way affect safety and stability.

Do not modify or alter an aerial work platform without prior written permission from the manufacturer. Mounting attachments for holding tools or other materials onto the platform, toeboards or guard rail system can increase the weight in the platform and the surface area of the platform or the load.

Do not raise the mast when wind speeds may exceed 28 mph / 12.5 m/s. If wind speeds exceed 28 mph / 12.5 m/s when the platform is raised, lower the platform and do not continue to operate the machine.



Do not place or attach fixed or overhanging loads to any part of this machine.

Do not place ladders or scaffolds in the platform or against any part of this machine.

Be sure all tires are in good condition, castle nuts are properly tightened and cotter pins are properly installed.

SAFETY RULES

Do not use batteries that weigh less than the original equipment. Batteries are used as counterweight and are critical to machine stability. Each battery must weigh 62 pounds / 28 kg.

Do not use the machine as a crane.

Do not push the machine or other objects with the platform.

Do not contact adjacent structures with the platform.

Do not tie the platform to adjacent structures.

Fall Hazards

The guard rail system provides fall protection. If occupants of the platform are required to wear personal fall protection equipment (PFPE) due to job site or employer rules, PFPE equipment and its use shall be in accordance with the PFPE manufacturer's instructions and applicable governmental requirements.

Do not sit, stand or climb on the platform guard rails. Maintain a firm footing on the platform floor at all times.



Do not climb down from the platform when raised.

Keep the platform floor clear of debris.

Lower the platform mid-rail bar or close the platform entry gate before operating.

Collision Hazards

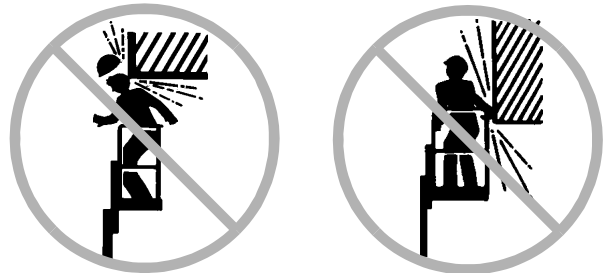


Be aware of limited sight distance and blind spots when driving or operating.

Be aware of the extended platform position when moving the machine.

Operators must comply with employer, job site and governmental rules regarding use of personal protective equipment.

Check the work area for overhead obstructions or other possible hazards.



Be aware of crushing hazards when grasping the platform guard rail.

Observe and use the color-coded direction arrows on the platform controls and platform decal plate for drive and steer functions.

No stunt driving or horseplay while operating a machine.

SAFETY RULES

Do not lower the platform unless the area below is clear of personnel and obstructions.



Limit travel speed according to the condition of the ground surface, congestion, slope, location of personnel, and any other factors which may cause collision.

Do not operate a machine in the path of any crane or moving overhead machinery unless the controls of the crane have been locked out and/or precautions have been taken to prevent any potential collision.

Crushing Hazard

Use common sense and planning when operating the machine with the controller from the ground. Maintain safe distances between the operator, the machine and fixed objects.

Component Damage Hazard

Do not use the machine as a ground for welding.

Explosion and Fire Hazard

Do not operate the machine or charge the battery in hazardous locations or locations where potentially flammable or explosive gases or particles may be present.

Damaged Machine Hazards

Do not use a damaged or malfunctioning machine.

Conduct a thorough pre-operation inspection of the machine and test all functions before each work shift. Immediately tag and remove from service a damaged or malfunctioning machine.

Be sure all maintenance has been performed as specified in this manual and the appropriate service manual.

Be sure all decals are in place and legible.

Be sure the operator's, safety, and responsibilities manuals are complete, legible and in the storage container located on the platform.

Bodily Injury Hazard

Do not operate the machine with a hydraulic oil or air leak. An air leak or hydraulic leak can penetrate and/or burn skin.

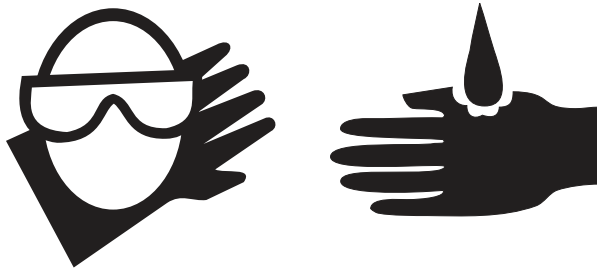
Improper contact with components under any cover will cause serious injury. Only trained maintenance personnel should access compartments. Access by the operator is only advised when performing a pre-operation inspection. All compartments must remain closed and secured during operation.

SAFETY RULES

Battery Safety

Burn Hazards

Batteries contain acid. Always wear protective clothing and eye wear when working with batteries.



Avoid spilling or contacting battery acid. Neutralize battery acid spills with baking soda and water.

Do not expose the batteries or the charger to water or rain during charging.

Explosion Hazards



Keep sparks, flames and lighted tobacco away from batteries. Batteries emit an explosive gas.

The battery tray should remain open during the entire charging cycle.

Do not contact the battery terminals or the cable clamps with tools that may cause sparks.

Component Damage Hazard

Do not use any battery charger greater than 24V to charge the batteries.

Electrocution Hazards



Connect the battery charger to a grounded, AC 3-wire electrical outlet only.

Inspect daily for damaged cord, cables and wires. Replace damaged items before operating.

Avoid electrical shock from contact with battery terminals. Remove all rings, watches and other jewelry.

Tip-over Hazard

Do not use batteries that weigh less than the original equipment. Batteries are used as counterweight and are critical to machine stability. Each battery must weigh 62 pounds / 28 kg.

Lifting Hazard

Use the appropriate number of people and proper lifting techniques when lifting batteries.