Important

Read, understand and obey these safety rules and operating instructions before operating this machine. Only trained and authorized personnel shall be permitted to operate this machine. This manual should be considered a permanent part of your machine and should remain with the machine at all times. If you have any questions, call Genie Industries.

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ANSI A92.5
CSA B354.4

Complies with EC Directive 2006/42/EC
See EC Declaration of Conformity

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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.

<table>
<thead>
<tr>
<th>Voltage Phase to Phase</th>
<th>Minimum Safe Approach Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 300V</td>
<td>Avoid Contact</td>
</tr>
<tr>
<td>300V to 50KV</td>
<td>10</td>
</tr>
<tr>
<td>50KV to 200KV</td>
<td>15</td>
</tr>
<tr>
<td>200KV to 350KV</td>
<td>20</td>
</tr>
<tr>
<td>350KV to 500KV</td>
<td>25</td>
</tr>
<tr>
<td>500KV to 750KV</td>
<td>35</td>
</tr>
<tr>
<td>750KV to 1000KV</td>
<td>45</td>
</tr>
</tbody>
</table>

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 shall not exceed the maximum platform capacity.

<table>
<thead>
<tr>
<th>Maximum platform capacity</th>
<th>500 lbs</th>
<th>227 kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machine equipped with</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aircraft Protection Package</td>
<td>440 lbs</td>
<td>200 kg</td>
</tr>
</tbody>
</table>

Maximum occupants 2

The weight of options and accessories, such as pipe cradles, panel cradles and welders, will reduce the rated platform capacity and must be factored into the total platform load. See the decals on the options.

Do not raise or extend the boom unless the machine is on a firm, level surface.

Do not depend on the tilt alarm as a level indicator. The tilt alarm sounds in the platform only when the machine is on a severe slope.
If the tilt alarm sounds while the boom is lowered:
Do not extend, rotate or raise the boom above horizontal. Move the machine to a firm, level surface before raising the platform.

If the tilt alarm sounds when the platform is raised:
Use extreme caution. Identify the condition of the boom on the slope as shown below. Follow the steps to lower the boom before moving to a firm, level surface. Do not rotate the boom while lowering.

If the tilt alarm sounds with the platform uphill:
1. Lower the primary boom.
2. Lower the secondary boom.
3. Retract the primary boom.

If the tilt alarm sounds with the platform downhill:
1. Retract the primary boom.
2. Lower the secondary boom.
3. Lower the primary boom.

Do not alter or disable the limit switches.

Do not drive over 0.7 mph / 1 km/h with the primary boom raised or extended or the secondary boom raised.

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

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.

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 or near uneven terrain, unstable surfaces or other hazardous conditions with the boom raised or extended.

Do not drive the machine on a slope that exceeds the maximum uphill, downhill or side slope rating of the machine. Slope rating applies to machines in the stowed position.

<table>
<thead>
<tr>
<th>Maximum slope rating, stowed position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Counterweight uphill                        35% 19°</td>
</tr>
<tr>
<td>Counterweight downhill                      20% 11°</td>
</tr>
<tr>
<td>Side slope                                  25% 14°</td>
</tr>
</tbody>
</table>

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

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

Maximum allowable side force - ANSI & CSA
150 lbs / 667 N

Maximum allowable manual force - CE
90 lbs / 400 N
SAFETY RULES

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

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

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

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

Do not use the machine as a crane.

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

Be sure all tires are in good condition and lug nuts are properly tightened.

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 a minimum of 105 lbs / 47.6 kg. Each battery box including batteries must weigh a minimum of 530 lbs / 240.4 kg.

Fall Hazards

Occupants must wear a safety belt or harness and comply with applicable governmental regulations. Attach lanyard to the anchor provided in the platform.

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 entry mid-rail or close the entry gate before operating.
**SAFETY RULES**

**Collision Hazards**

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

Be aware of boom position when rotating the turntable.

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

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

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

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

Do not lower the boom 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 boom in the path of any crane unless the controls of the crane have been locked out and/or precautions have been taken to prevent any potential collision.

No stunt driving or horseplay while operating a machine.
SAFETY RULES

Component Damage Hazard
Do not use the machine as a ground for welding.

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 Genie Z-30/20N 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.

Decal Legend
Genie product decals use symbols, color coding and signal words to identify the following:

Safety alert symbol—used to alert personnel to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

Red—used to indicate the presence of an imminently hazardous situation which, if not avoided, will result in death or serious injury.

Orange—used to indicate the presence of a potentially hazardous situation which, if not avoided, could result in death or serious injury.

Yellow with safety alert symbol—used to indicate the presence of a potentially hazardous situation which, if not avoided, may cause minor or moderate injury.

Yellow without safety alert symbol—used to indicate the presence of a potentially hazardous situation which, if not avoided, may result in property damage.

Green—used to indicate operation or maintenance information.
SAFETY RULES

Battery Safety

Burn Hazards

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

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

The battery pack must remain in an upright position.

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

Explosion Hazards

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

The battery pack cover must remain off during the entire charging cycle.

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

Component Damage Hazards

Do not use any battery charger greater than 48V to charge the batteries.

Both battery packs must be charged together.

Disconnect the battery pack plug before removing the battery pack.

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 a minimum of 105 lbs / 47.6 kg. Each battery box including batteries must weigh a minimum of 530 lbs / 240.4 kg.

Lifting Hazard

Use a forklift to remove or install the battery packs.
Controls

Platform Control Panel

1. Drive enable switch
2. Drive enable indicator light
3. Auxiliary power switch
4. Platform level switch
5. Horn button
6. Primary boom extend/retract switch
7. Red Emergency Stop button
8. Jib boom rotate switch (option)
9. Battery charge indicator and/or low voltage interrupt (option)
10. Machine not level indicator light (if equipped)
11. Proportional control handle for drive function and thumb rocker for steer function
12. Platform overload indicator light (if equipped)
13. Function Override - Aircraft Protection Package (if equipped)
14. Boom function speed controller
15. Jib boom up/down switch
16. Secondary boom up/down switch
17. Primary boom up/down switch
18. Turntable rotate switch
19. Platform rotate switch
20. Not used

To drive, hold drive enable switch up or down and slowly move drive control handle. Machine may drive in opposite direction that the drive and steer controls are moved. Use color-coded direction arrows on this panel and drive chassis to identify the direction machine will travel.
CONTROLS

Ground Control Panel

1  Secondary boom up/down switch
2  Turntable rotate switch
3  Platform rotate switch
4  Platform level switch
5  Primary boom extend/retract switch
6  Auxiliary power switch
7  Key switch for platform/off/ground selection
8  Hour meter
9  Red Emergency Stop button
10 10A breaker for electrical circuits
11 Platform overload indicator light (if equipped)
12 Jib boom rotate switch (option)
13 Jib boom up/down switch
14 Primary boom up/down switch
15 Function enable switch
Legend

1 Non-steer tire
2 Battery box
3 Steer tire
4 Power to charger (between steer tires)
5 Ground controls
6 Secondary boom
7 Primary boom
8 Jib boom
9 Platform controls
10 Platform
11 Lanyard anchorage point
12 Sliding mid-rail
13 Manual storage container
14 Foot switch
Pre-operation Inspection

Fundamentals

It is the responsibility of the operator to perform a pre-operation inspection and routine maintenance.

The pre-operation inspection is a visual inspection performed by the operator prior to each work shift. The inspection is designed to discover if anything is apparently wrong with a machine before the operator performs the function tests.

The pre-operation inspection also serves to determine if routine maintenance procedures are required. Only routine maintenance items specified in this manual may be performed by the operator.

Refer to the list on the next page and check each of the items.

If damage or any unauthorized variation from factory delivered condition is discovered, the machine must be tagged and removed from service.

Repairs to the machine may only be made by a qualified service technician, according to the manufacturer's specifications. After repairs are completed, the operator must perform a pre-operation inspection again before going on to the function tests.

Scheduled maintenance inspections shall be performed by qualified service technicians, according to the manufacturer's specifications and the requirements listed in the responsibilities manual.

Do Not Operate Unless:

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

1 Avoid hazardous situations.

2 Always perform a pre-operation inspection.

Know and understand the pre-operation inspection before going on to the next section.

3 Always perform function tests prior to use.

4 Inspect the workplace.

5 Only use the machine as it was intended.
Pre-operation Inspection

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

- Be sure that all decals are legible and in place. See Decals section.

- Check for hydraulic oil leaks and proper oil level. Add oil if needed. See Maintenance section.

- Check for battery fluid leaks and proper fluid level. Add distilled water if needed. See Maintenance section.

Check the following components or areas for damage, improperly installed or missing parts and unauthorized modifications:

- Electrical components, wiring and electrical cables
- Hydraulic power unit, reservoir, hoses, fittings, cylinders and manifolds
- Drive and turntable motors and drive hubs
- Boom wear pads
- Tires and wheels
- Limit switches
- Nuts, bolts and other fasteners
- Platform entry mid-rail/gate
- Beacon and alarms (if equipped)

Check entire machine for:

- Cracks in welds or structural components
- Dents or damage to machine
- Be sure that all structural and other critical components are present and all associated fasteners and pins are in place and properly tightened.
- Be sure that both battery packs are in place, latched and properly connected.
- After you complete your inspection, be sure that all compartment covers are in place and latched.
Observe and Obey:

☑ Only routine maintenance items specified in this manual shall be performed by the operator.

☑ Scheduled maintenance inspections shall be completed by qualified service technicians, according to the manufacturer's specifications and the requirements specified in the responsibilities manual.

Maintenance Symbols Legend

The following symbols have been used in this manual to help communicate the intent of the instructions. When one or more of the symbols appear at the beginning of a maintenance procedure, it conveys the meaning below.

- Indicates that tools will be required to perform this procedure.

- Indicates that new parts will be required to perform this procedure.

Check the Hydraulic Oil Level

Maintaining the hydraulic oil at the proper level is essential to machine operation. Improper hydraulic oil levels can damage hydraulic components. Daily checks allow the inspector to identify changes in oil level that might indicate the presence of hydraulic system problems.

1. Be sure that the boom is in the stowed position.
2. Check the hydraulic oil level.
3. Result: The hydraulic oil level should be, between the FULL and ADD marks on the hydraulic reservoir.
4. Add hydraulic oil if necessary.

Hydraulic Oil Specifications

<table>
<thead>
<tr>
<th>Hydraulic Oil Type</th>
<th>Chevron Rando HD Premium MV equivalent</th>
</tr>
</thead>
</table>

Part No. 133546 Z-30/20N • Z-30/20N RJ
MAINTENANCE

Check the Batteries

Proper battery condition is essential to good machine performance and operational safety. Improper fluid levels or damaged cables and connections can result in component damage and hazardous conditions.

**WARNING**
Electrocution/burn hazard. Contact with hot or live circuits could result in death or serious injury. Remove all rings, watches and other jewelry.

**WARNING**

Bodily injury hazard. Batteries contain acid. Avoid spilling or contacting battery acid. Neutralize battery acid spills with baking soda and water.

**NOTICE**

Perform this test after fully charging the batteries.

1. Put on protective clothing and eyewear.
2. Be sure that the battery cable connections are tight and free of corrosion.

**Standard Batteries**

3. Remove the battery vent caps.
4. Check the battery acid level. If needed, replenish with distilled water to the bottom of the battery fill tube. Do not overfill.
5. Install the vent caps.

Scheduled Maintenance

Maintenance performed quarterly, annually and every two years must be completed by a person trained and qualified to perform maintenance on this machine according to the procedures found in the service manual for this machine.

Machines that have been out of service for more than three months must receive the quarterly inspection before they are put back into service.
Function Tests

Fundamentals

The function tests are designed to discover any malfunctions before the machine is put into service. The operator must follow the step-by-step instructions to test all machine functions.

A malfunctioning machine must never be used. If malfunctions are discovered, the machine must be tagged and removed from service. Repairs to the machine may only be made by a qualified service technician, according to the manufacturer’s specifications.

After repairs are completed, the operator must perform a pre-operation inspection and function tests again before putting the machine into service.

Do Not Operate Unless:

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

1. Avoid hazardous situations.
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.

Fundamentals

The function tests are designed to discover any malfunctions before the machine is put into service. The operator must follow the step-by-step instructions to test all machine functions.

A malfunctioning machine must never be used. If malfunctions are discovered, the machine must be tagged and removed from service. Repairs to the machine may only be made by a qualified service technician, according to the manufacturer’s specifications.

After repairs are completed, the operator must perform a pre-operation inspection and function tests again before putting the machine into service.

1. Select a test area that is firm, level and free of obstruction.

At the Ground Controls

2. Turn the key switch to ground control.
3. Pull out the red Emergency Stop button to the on position.
   - Result: The beacon (if equipped) should flash.

Test Emergency Stop

4. Push in the red Emergency Stop button to the off position.
   - Result: All ground and platform control functions should not operate.
5. Pull out the red Emergency Stop button to the on position.
FUNCTION TESTS

Test the Boom Functions
6 Do not hold the function enable switch to either side. Attempt to activate each boom and platform function toggle switch.

Test Auxiliary Controls
11 Turn the key switch to ground control.
12 Simultaneously hold the auxiliary power switch on and activate each boom function toggle switch.

Note: To conserve battery power, test each function through a partial cycle.

Result: All boom and platform functions should not operate.

Test the Tilt Sensor
7 Hold the function enable switch to either side and activate each boom and platform function toggle switch.

Result: All boom and platform functions should operate through a full cycle. The descent alarm (if equipped) should sound while the boom is lowering.

Test the Horn
13 Turn the key switch to platform control.
14 Push in the platform red Emergency Stop button to the off position.

Result: All platform control functions should operate.

Test the Foot Switch
15 Pull out the red Emergency Stop button to the on position.
16 Push the horn button.

Result: The horn should sound.

Test the Tilt Sensor
8 Pull out the platform red Emergency Stop button to the on position. Turn the key switch to platform control.

Result: The alarm, located in the platform, should sound.

Test the Foot Switch
17 Do not press down the foot switch. Activate each machine function.

Result: The machine functions should not operate.

At the Platform Controls
Test Emergency Stop
19 Press down the platform red Emergency Stop button to the off position.

Result: All platform control functions should not operate.

Test the Tilt Sensor
18 Pull out the platform red Emergency Stop button to the on position. Turn the key switch to platform control.

Open the ground control side turntable cover and locate the tilt sensor next to the function manifold.

Press down one side of the tilt sensor.

Result: The alarm, located in the platform, should sound.
FUNCTION TESTS

Test Machine Functions

18 Press down the foot switch.
19 Activate each machine function toggle switch.

☐ Result: All boom/platform functions should operate through a full cycle.

Note: Control the speed of boom functions by adjusting the boom function speed controller. Drive and steer functions are not affected by the boom function speed controller.

Test the Steering

20 Press down the foot switch.
21 Depress the thumb rocker switch on top of the drive control handle in the direction identified by the blue triangle on the control panel.

☐ Result: The steer wheels should turn in the direction that the blue triangles point on the drive chassis.

22 Depress the thumb rocker switch in the direction identified by the yellow triangle on the control panel.

☐ Result: The steer wheels should turn in the direction that the yellow triangles point on the drive chassis.

Test Drive and Braking

23 Press down the foot switch.
24 Slowly move the drive control handle in the direction indicated by the blue arrow on the control panel until the machine begins to move, then return the handle to the center position.

☐ Result: The travel alarm should sound. The machine should move in the direction that the blue arrow points on the drive chassis, then come to an abrupt stop.

25 Slowly move the drive control handle in the direction indicated by the yellow arrow on the control panel until the machine begins to move, then return the handle to the center position.

☐ Result: The travel alarm should sound. The machine should move in the direction that the yellow arrow points on the drive chassis, then come to an abrupt stop.

Note: The brakes must be able to hold the machine on any slope it is able to climb.
FUNCTION TESTS

Test Limited Drive Speed
26 Press down the foot switch.
27 Raise the primary boom 1 foot / 30 cm.
28 Slowly move the drive control handle to the full drive position.
  ☐ Result: The maximum achievable drive speed with the primary boom raised should not exceed 1 foot / 30 cm per second.
29 Lower the boom to the stowed position.
30 Raise the secondary boom 1 foot / 30 cm.
31 Slowly move the drive control handle to the full drive position.
  ☐ Result: The maximum achievable drive speed with the secondary boom raised should not exceed 1 foot / 30 cm per second.
32 Lower the boom to the stowed position.
33 Extend the primary boom 1 foot / 30 cm.
34 Slowly move the drive control handle to the full drive position.
  ☐ Result: The maximum achievable drive speed with the primary boom extended should not exceed 1 foot / 30 cm per second.
If the drive speed with the primary boom raised or extended or the secondary boom raised exceeds 1 foot / 30 cm per second, immediately tag and remove the machine from service.

Test the Drive Enable System
35 Press down the foot switch and retract the primary boom to the stowed position.
36 Rotate the turntable until the boom moves past one of the non-steer wheels.
  ☐ Result: The drive enable indicator light should come on and remain on while the boom is anywhere in the range shown.
37 Move the drive control handle off center.
  ☐ Result: The drive function should not operate.
38 Hold the drive enable toggle switch up or down and slowly move the drive control handle off center.
  ☐ Result: The drive function should operate.
Note: When the drive enable system is in use, the machine may drive in the opposite direction that the drive and steer control handle is moved.
Use the color-coded direction arrows on the platform controls and the drive chassis to identify the direction of travel.
Test Auxiliary Controls

39 Press down the foot switch.

40 Simultaneously hold the auxiliary power switch on and activate each function control handle or toggle switch.

Note: To conserve battery power, test each function through a partial cycle.

☐ Result: All boom, steer and drive functions should operate.

Test the Lift/Drive Select Function (if equipped)

41 Press down the foot switch.

42 Move the drive control handle off center and activate a boom function toggle switch.

☐ Result: No boom functions should operate. The machine will move in the direction indicated on the control panel.
Workplace Inspection

Do Not Operate Unless:

1. You learn and practice the principles of safe machine operation contained in this operator's manual.
2. Avoid hazardous situations.
3. Always perform a pre-operation inspection.
4. Always perform function tests prior to use.
5. Inspect the workplace.
6. Know and understand the workplace inspection before going on to the next section.
7. Only use the machine as it was intended.

Workplace Inspection

Be aware of and avoid the following hazardous situations:
- drop-offs or holes
- bumps, floor obstructions or debris
- sloped surfaces
- unstable or slippery surfaces
- overhead obstructions and high voltage conductors
- hazardous locations
- inadequate surface support to withstand all load forces imposed by the machine
- wind and weather conditions
- the presence of unauthorized personnel
- other possible unsafe conditions

Fundamentals

The workplace inspection helps the operator determine if the workplace is suitable for safe machine operation. It should be performed by the operator prior to moving the machine to the workplace.

It is the operator's responsibility to read and remember the workplace hazards, then watch for and avoid them while moving, setting up and operating the machine.
Operating Instructions

Fundamentals

The Operating Instructions section provides instructions for each aspect of machine operation. It is the operator's responsibility to follow all the safety rules and instructions in the operator's, safety and responsibilities manuals.

Using the machine for anything other than lifting personnel, along with their tools and materials, to an aerial worksite is unsafe and dangerous.

Only trained and authorized personnel should be permitted to operate a machine. If more than one operator is expected to use a machine at different times in the same work shift, they must all be qualified operators and are all expected to follow all safety rules and instructions in the operator's, safety and responsibilities manuals. That means every new operator should perform a pre-operation inspection, function tests, and a workplace inspection before using the machine.

Do Not Operate Unless:

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

1 Avoid hazardous situations.

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.
OPERATING INSTRUCTIONS

Emergency Stop

Push in the red Emergency Stop button to the off position at the ground or platform controls to stop all machine functions.

Repair any function that operates when the red Emergency Stop button is pushed in.

Selecting and operating the ground controls will override the platform red Emergency Stop button.

Auxiliary Controls

Use auxiliary power if the primary power source fails.

1. Be sure both battery packs are connected before operating the machine.
2. Turn the key switch to ground or platform control.
3. Pull out the red Emergency Stop button to the on position.
4. Press down the foot switch when operating the auxiliary controls from the platform.
5. Simultaneously hold the auxiliary power switch on and activate the desired function.

The boom, steer and drive functions will operate with auxiliary power.

Operation from Ground

1. Be sure both battery packs are connected before operating the machine.
2. Turn the key switch to ground control.
3. Pull out the red Emergency Stop button to the on position.

To Position Platform

1. Hold the function enable switch to either side.
2. Move the appropriate toggle switch according to markings on the control panel.

Drive and steer functions are not available from the ground controls.

Operation from Platform

1. Be sure that both battery packs are connected before operating the machine.
2. Turn the key switch to platform control.
3. Pull out both ground and platform red Emergency Stop buttons to the on position.

To Position Platform

1. Set the boom function speed controller to the desired speed.

Note: Drive and steer functions are not affected by the boom function speed controller.
2. Press down the foot switch.
3. Move the appropriate toggle switch according to the markings on the control panel.

To Steer

1. Press down the foot switch.
2. Turn the steer wheels with the thumb rocker switch located on top of the drive control handle.

Use the color-coded direction triangles on the platform controls and the drive chassis to identify the direction the wheels will turn.
To Drive
1. Press down the foot switch.
2. Increase speed: Slowly move the drive control handle off center.
   Decrease speed: Slowly move the drive control handle toward center.
3. Stop: Return the drive control handle to center or release the foot switch.

Use the color-coded direction arrows on the platform controls and the drive chassis to identify the direction the machine will travel.

Machine travel speed is restricted when the booms are raised or extended.

Battery condition will affect machine performance.

Driving on a slope

Determine the uphill, downhill and side slope ratings for the machine and determine the slope grade.

- Maximum slope rating, counterweight uphill (gradeability): 35% (19°)
- Maximum slope rating, counterweight downhill: 20% (11°)
- Maximum side slope rating: 25% (14°)

Note: Slope rating is subject to ground conditions and adequate traction. The term gradeability applies to the counterweight uphill configuration only.

Be sure the boom is below horizontal and the platform is between the non-steer wheels.

To determine the slope grade:

Measure the slope with a digital inclinometer OR use the following procedure.

You will need:
- carpenter’s level
- straight piece of wood, at least 3 feet / 1 m long
- tape measure

Lay the piece of wood on the slope.

At the downhill end, lay the level on the top edge of the piece of wood and lift the end until the piece of wood is level.

While holding the piece of wood level, measure the distance from the bottom of the piece of wood to the ground.

Divide the tape measure distance (rise) by the length of the piece of wood (run) and multiply by 100.

Example:

\[
\text{Piece of wood} = 144 \text{ inches (3.6 m)} \\
\text{Run} = 144 \text{ inches (3.6 m)} \\
\text{Rise} = 12 \text{ inches (0.3 m)} \\
12 \text{ in} \div 144 \text{ in} = 0.083 \times 100 = 8.3\% \text{ grade} \\
0.3 \text{ m} \div 3.6 \text{ m} = 0.083 \times 100 = 8.3\% \text{ grade}
\]

If the slope exceeds the maximum uphill, downhill or side slope rating, then the machine must be winched or transported up or down the slope. See Transport and Lifting section.
OPERATING INSTRUCTIONS

Drive Enable
Light on indicates that the boom has moved past either non-steer wheel and the drive function has been interrupted.

To drive, hold the drive enable switch up or down and slowly move the drive control handle off center.

Be aware that the machine may move in the opposite direction that the drive and steer controls are moved.

Always use the color-coded direction arrows on the platform controls and the drive chassis to identify the direction the machine will travel.

Low Voltage Interrupt (if equipped)
Machines equipped with Low Voltage Interrupt will lose primary and secondary boom up functions from the platform when batteries are low.

Machine Not Level Indicator Light (if equipped)
Light on indicates the machine is not level. The tilt alarm will be sounding when this light is on. Move the machine to a firm level surface.

Platform Overload Indicator Light (if equipped)
Light flashing indicates the platform is overloaded and no functions will operate.

Remove weight from the platform until the light goes off.

Fall Protection
Personal fall protection equipment (PFPE) is required when operating this machine.

All PFPE must comply with applicable governmental regulations, and must be inspected and used in accordance with the PFPE manufacturer’s instructions.

After Each Use
1. Select a safe parking location—firm level surface, clear of obstruction and traffic.
2. Lower the boom to the stowed position.
3. Rotate the turntable so that the boom is between the non-steer wheels.
4. Turn the key switch to the off position and remove the key to secure from unauthorized use.
5. Chock the wheels.
6. Charge the batteries.

Aircraft Protection Package (If equipped)
If the platform bumpers come in contact with aircraft components, the machine will shut down and no functions will operate.

Move the function override toggle switch to either side to operate the machine.
Battery and Charger Instructions

Observe and Obey:

- Do not use external charger or booster batteries.
- Charge the batteries in a well-ventilated area.
- Use proper AC input voltage for charging as indicated on the charger.
- Use only Genie authorized batteries and charger.

To Charge Battery

1. Be sure the batteries are connected before charging the batteries.
2. Open the battery compartment. The compartment should remain open for the entire charging cycle.

Maintenance-free batteries

1. Connect the battery charger to a grounded AC circuit.
2. The charger will indicate when the battery is fully charged.

Standard Batteries

1. Remove the battery vent caps and check the battery acid level. If necessary, add only enough distilled water to cover the plates. Do not overfill prior to the charge cycle.
2. Replace the battery vent caps.
3. Connect the battery charger to a grounded AC circuit.
4. The charger will indicate when the battery is fully charged.
5. Check the battery acid level when the charging cycle is complete. Replenish with distilled water to the bottom of the fill tube. Do not overfill.

Dry Battery Filling and Charging Instructions

1. Remove the battery vent caps and permanently remove the plastic seal from the battery vent openings.
2. Fill each cell with battery acid (electrolyte) until the level is sufficient to cover the plates.

Do not fill to maximum level until the battery charge cycle is complete. Overfilling can cause the battery acid to overflow during charging. Neutralize battery acid spills with baking soda and water.

3. Install the battery vent caps.
4. Charge the battery.
5. Check the battery acid level when the charging cycle is complete. Replenish with distilled water to the bottom of the fill tube. Do not overfill.
## Decals

### Inspection for Decals with Words

Determine whether the decals on your machine have words or symbols. Use the appropriate inspection to verify that all decals are legible and in place.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Decal Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>27564</td>
<td>Danger - Electrocution Hazard</td>
<td>2</td>
</tr>
<tr>
<td>28161</td>
<td>Warning - Crushing Hazard</td>
<td>3</td>
</tr>
<tr>
<td>28164</td>
<td>Notice - Hazardous Materials</td>
<td>1</td>
</tr>
<tr>
<td>28165</td>
<td>Notice - Foot Switch</td>
<td>1</td>
</tr>
<tr>
<td>28171</td>
<td>Label - No Smoking</td>
<td>1</td>
</tr>
<tr>
<td>28174</td>
<td>Label - Power to Platform, 230V</td>
<td>2</td>
</tr>
<tr>
<td>28175</td>
<td>Caution - Compartment Access</td>
<td>1</td>
</tr>
<tr>
<td>28176</td>
<td>Notice - Missing Manuals</td>
<td>1</td>
</tr>
<tr>
<td>28177</td>
<td>Warning - Platform Rotate</td>
<td>2</td>
</tr>
<tr>
<td>28181</td>
<td>Warning - No Step or Ride</td>
<td>1</td>
</tr>
<tr>
<td>28235</td>
<td>Label - Power to Platform, 115V</td>
<td>2</td>
</tr>
<tr>
<td>28236</td>
<td>Warning - Failure To Read . . .</td>
<td>1</td>
</tr>
<tr>
<td>28372</td>
<td>Caution - Component Damage</td>
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<tr>
<td>31060</td>
<td>Danger - Tip-over Hazard, Interlock</td>
<td>4</td>
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<tr>
<td>31508</td>
<td>Notice - Power to Charger</td>
<td>1</td>
</tr>
<tr>
<td>31785</td>
<td>Notice - Battery Charger Instructions</td>
<td>2</td>
</tr>
<tr>
<td>31787</td>
<td>Danger - Tip-over, Batteries</td>
<td>2</td>
</tr>
<tr>
<td>31788</td>
<td>Danger - Battery/Charger Safety</td>
<td>2</td>
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<tr>
<td>32728</td>
<td>Label - Inverter Option Patch</td>
<td>1</td>
</tr>
<tr>
<td>35542</td>
<td>Notice - Lug Nuts</td>
<td>4</td>
</tr>
<tr>
<td>37052</td>
<td>Notice - Maximum Load, 500 lbs / 227 kg</td>
<td>1</td>
</tr>
<tr>
<td>37053</td>
<td>Arrow - Blue</td>
<td>1</td>
</tr>
<tr>
<td>37054</td>
<td>Arrow - Yellow</td>
<td>1</td>
</tr>
<tr>
<td>37055</td>
<td>Triangle - Blue</td>
<td>2</td>
</tr>
<tr>
<td>37056</td>
<td>Triangle - Yellow</td>
<td>2</td>
</tr>
<tr>
<td>40434</td>
<td>Label - Lanyard Anchorage</td>
<td>2</td>
</tr>
</tbody>
</table>

### Decals with Words

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Decal Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>44248</td>
<td>Label - Maximum Capacity, 440 lbs (Aircraft Protection Package)</td>
<td>1</td>
</tr>
<tr>
<td>44980</td>
<td>Label - Power to Charger, EE</td>
<td>1</td>
</tr>
<tr>
<td>44981</td>
<td>Label - Air Line to Platform</td>
<td>2</td>
</tr>
<tr>
<td>44986</td>
<td>Notice - Max Side Force, 90 lbs / 400 N</td>
<td>1</td>
</tr>
<tr>
<td>46468</td>
<td>Label - Function Override (Aircraft Protection Package)</td>
<td>1</td>
</tr>
<tr>
<td>52947</td>
<td>Notice - Operating Instructions, Ground</td>
<td>1</td>
</tr>
<tr>
<td>52968</td>
<td>Cosmetic - Genie Boom</td>
<td>1</td>
</tr>
<tr>
<td>62928</td>
<td>Cosmetic - Genie Z-30/20N</td>
<td>1</td>
</tr>
<tr>
<td>62929</td>
<td>Cosmetic - Genie Z-30/20N</td>
<td>2</td>
</tr>
<tr>
<td>65171</td>
<td>Label - Circuit Breaker &amp; Status Light</td>
<td>1</td>
</tr>
<tr>
<td>72081</td>
<td>Platform Control Panel</td>
<td>1</td>
</tr>
<tr>
<td>72167</td>
<td>Cosmetic - Genie Z-30/20N RJ</td>
<td>1</td>
</tr>
<tr>
<td>72833</td>
<td>Label - Open</td>
<td>2</td>
</tr>
<tr>
<td>72867</td>
<td>Label - Work Lights Option Patch</td>
<td>1</td>
</tr>
<tr>
<td>72999</td>
<td>Label - Environ MV46</td>
<td>1</td>
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<tr>
<td>82161</td>
<td>Label - UCON Hydrolube, HP-5046</td>
<td>1</td>
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<tr>
<td>82366</td>
<td>Label - Chevron Rando</td>
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<tr>
<td>82592</td>
<td>Ground Control Panel</td>
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<tr>
<td>97890</td>
<td>Danger - General Safety</td>
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<tr>
<td>97893</td>
<td>Notice - Max Side Force, 150 lbs / 667 N</td>
<td>1</td>
</tr>
<tr>
<td>97894</td>
<td>Notice - Operating Instructions, Platform</td>
<td>1</td>
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<tr>
<td>114117</td>
<td>Notice - Battery Connection Diagram</td>
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<tr>
<td>114397</td>
<td>Danger - Tilt-Alarm</td>
<td>1</td>
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<td>133286</td>
<td>Label - Power to Charger, Universal</td>
<td>1</td>
</tr>
<tr>
<td>139586</td>
<td>Label - Wheel Load</td>
<td>4</td>
</tr>
</tbody>
</table>
DECALS

Shading indicates decal is hidden from view, i.e., under covers.

Ground Controls Side

Chassis

Platform

Power Unit Side
DECALS

### Inspection for Decals with Symbols

Determine whether the decals on your machine have words or symbols. Use the appropriate inspection to verify that all decals are legible and in place.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Decal Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>28171</td>
<td>Label - No Smoking</td>
<td>1</td>
</tr>
<tr>
<td>28174</td>
<td>Label - Power to Platform, 230V</td>
<td>2</td>
</tr>
<tr>
<td>28235</td>
<td>Label - Power to Platform, 115V</td>
<td>2</td>
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<tr>
<td>32728</td>
<td>Label - Inverter Option Patch</td>
<td>1</td>
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<tr>
<td>37053</td>
<td>Arrow - Blue</td>
<td>1</td>
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<tr>
<td>37054</td>
<td>Arrow - Yellow</td>
<td>1</td>
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<tr>
<td>37055</td>
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<td>2</td>
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<tr>
<td>37056</td>
<td>Triangle - Yellow</td>
<td>2</td>
</tr>
<tr>
<td>40434</td>
<td>Label - Lanyard Anchorage</td>
<td>2</td>
</tr>
<tr>
<td>44981</td>
<td>Label - Air Line to Platform</td>
<td>2</td>
</tr>
<tr>
<td>46468</td>
<td>Label - Function Override</td>
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</tr>
<tr>
<td>52968</td>
<td>Cosmetic - Genie Boom</td>
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</tr>
<tr>
<td>62928</td>
<td>Cosmetic - Genie Z-30/20N</td>
<td>1</td>
</tr>
<tr>
<td>62929</td>
<td>Cosmetic - Genie Z-30/20N RJ</td>
<td>2</td>
</tr>
<tr>
<td>72081</td>
<td>Platform Control Panel</td>
<td>1</td>
</tr>
<tr>
<td>72167</td>
<td>Cosmetic - Genie Z-30/20N RJ</td>
<td>1</td>
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<tr>
<td>72867</td>
<td>Label - Work Light Option Patch</td>
<td>1</td>
</tr>
<tr>
<td>82472</td>
<td>Warning - Crushing Hazard</td>
<td>3</td>
</tr>
<tr>
<td>82481</td>
<td>Danger - Battery Safety</td>
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</tr>
<tr>
<td>82487</td>
<td>Label - Operating Instructions</td>
<td>2</td>
</tr>
<tr>
<td>82544</td>
<td>Danger - Electrocution Hazard</td>
<td>2</td>
</tr>
<tr>
<td>82548</td>
<td>Warning - Platform Rotate</td>
<td>2</td>
</tr>
<tr>
<td>82592</td>
<td>Ground Control Panel</td>
<td>1</td>
</tr>
<tr>
<td>82601</td>
<td>Danger - Maximum Capacity, 227 kg</td>
<td>1</td>
</tr>
<tr>
<td>82602</td>
<td>Danger - Maximum Side Force, 667 N</td>
<td>1</td>
</tr>
<tr>
<td>82604</td>
<td>Danger - Maximum Manual Force, 400 N</td>
<td>1</td>
</tr>
<tr>
<td>82610</td>
<td>Label - Circuit Breaker &amp; Status Light</td>
<td>1</td>
</tr>
<tr>
<td>82611</td>
<td>Label - Drive Enable Patch</td>
<td>1</td>
</tr>
<tr>
<td>82612</td>
<td>Label - Maximum Capacity, 200 kg</td>
<td>1</td>
</tr>
<tr>
<td>97815</td>
<td>Label - Lower Mid-rail</td>
<td>1</td>
</tr>
<tr>
<td>114343</td>
<td>Label - Emergency Lowering</td>
<td>1</td>
</tr>
<tr>
<td>133286</td>
<td>Label - Power to Charger</td>
<td>1</td>
</tr>
<tr>
<td>139586</td>
<td>Label - Wheel Load</td>
<td>4</td>
</tr>
</tbody>
</table>
DECALS

Ground Controls Side

Chassis

Platform

Power Unit Side

Shading indicates decal is hidden from view, i.e., under covers.
Free-wheel Configuration for Winching

1. Chock the wheels to prevent the machine from rolling.
2. Release the non-steer wheel brakes by turning over the drive hub disconnect caps.
3. Be sure the winch line is properly secured to the drive chassis tie points and the path is clear of all obstructions.

After the machine is loaded:

1. Chock the wheels to prevent the machine from rolling.
2. Apply the non-steer wheel brakes by turning over the drive hub disconnect caps.

Towing the Genie Z-30/20N is not recommended. If the machine must be towed, do not exceed 2 mph / 3.2 km/h.
Securing to Truck or Trailer for Transit
Always chock the machine wheels in preparation for transport.
Turn the key switch to the off position and remove the key before transporting.
Inspect the entire machine for loose or unsecured items.

Securing the Chassis
Use the tie points on the drive chassis for anchoring down to the transport surface.
Use chains or straps of ample load capacity.
Use a minimum of 4 chains.
Adjust the rigging to prevent damage to the chains.

Securing the Platform
Make sure the jib and platform are in the stowed position.
Place a block under the edge of the platform beneath the platform entry.
Secure the platform with a nylon strap placed over the platform mount near the platform rotator (see below). Do not use excessive downward force when securing the boom section.
TRANSPORT AND LIFTING INSTRUCTIONS

Lifting Instructions

Fully lower and retract the boom. Fully lower the jib. Remove all loose items on the machine.

Determine the center of gravity of your machine using the table and the picture on this page.

Attach the rigging only to the designated lifting points on the machine. There are four lifting points on the chassis.

Adjust the rigging to prevent damage to the machine and to keep the machine level.

<table>
<thead>
<tr>
<th>Direction</th>
<th>X Axis</th>
<th>Y Axis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value</td>
<td>31.19 in</td>
<td>34.34 in</td>
</tr>
<tr>
<td>CM</td>
<td>79.2 cm</td>
<td>87.2 cm</td>
</tr>
</tbody>
</table>

Observe and Obey:

☑ Only qualified riggers should rig and lift the machine.

☑ Be sure the crane capacity, loading surfaces and straps or lines are sufficient to withstand the machine weight. See the serial plate for the machine weight.
## Specifications

### Z-30/20N without rotating jib

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height, working maximum</td>
<td>36 ft (11 m)</td>
</tr>
<tr>
<td>Height, platform maximum</td>
<td>30 ft (9.1 m)</td>
</tr>
<tr>
<td>Height, stowed maximum</td>
<td>6 ft 7 in (2 m)</td>
</tr>
<tr>
<td>Horizontal reach maximum</td>
<td>21 ft 5 in (6.5 m)</td>
</tr>
<tr>
<td>Width</td>
<td>3 ft 11 in (1.2 m)</td>
</tr>
<tr>
<td>Length, stowed</td>
<td>16 ft 9 in (5.1 m)</td>
</tr>
<tr>
<td>Maximum load capacity</td>
<td>500 lbs (227 kg)</td>
</tr>
<tr>
<td>Maximum wind speed</td>
<td>28 mph (12.5 m/s)</td>
</tr>
<tr>
<td>Wheelbase</td>
<td>5 ft 3 in (1.6 m)</td>
</tr>
<tr>
<td>Turning radius (outside)</td>
<td>10 ft 7 in (3.2 m)</td>
</tr>
<tr>
<td>Turning radius (inside)</td>
<td>5 ft 5 in (1.7 m)</td>
</tr>
<tr>
<td>Turntable rotation</td>
<td>359°</td>
</tr>
<tr>
<td>Turntable tailswing</td>
<td>0°</td>
</tr>
<tr>
<td>Power source</td>
<td>8 Group 903, L-16, 6V 390AH Batteries</td>
</tr>
<tr>
<td>Controls</td>
<td>24V DC proportional</td>
</tr>
<tr>
<td>Platform dimensions, (length x width)</td>
<td>46 in x 30 in (1.8 m x 76 cm)</td>
</tr>
<tr>
<td>Platform leveling</td>
<td>self-leveling</td>
</tr>
<tr>
<td>Platform rotation</td>
<td>180°</td>
</tr>
<tr>
<td>AC outlet in platform</td>
<td>standard</td>
</tr>
<tr>
<td>Hydraulic pressure, maximum (boom functions)</td>
<td>2800 psi (193 bar)</td>
</tr>
<tr>
<td>System voltage</td>
<td>48V</td>
</tr>
<tr>
<td>Tire size (solid rubber)</td>
<td>22 x 7 x 17¾ in (56 x 18 x 45 cm)</td>
</tr>
<tr>
<td>Vibration value</td>
<td>does not exceed 2.5 m/s²</td>
</tr>
</tbody>
</table>

### Ground clearance

| Value | 3½ in (8.9 cm) |

### Weight

| See Serial Plate (Machine weights vary with option configurations) |

### Drive speeds

| Drive speed, stowed | 3.0 mph (40 ft/9 sec) (12.2 km/h) |
| Drive speed, booms raised or extended | 0.7 mph (40 ft/40 sec) (12.2 km/h) |

### Maximum slope rating, stowed position

| Counterweight uphill | 35% (19°) |
| Counterweight downhill | 20% (11°) |
| Side slope            | 25% (14°) |

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

### Airborne noise emissions

| Sound pressure level at ground workstation | < 70 dBA |
| Sound pressure level at platform workstation | < 70 dBA |

### Floor Loading Information

| Tire load, maximum | 7350 lbs (3334 kg) |
| Tire contact pressure (per tire) | 103 psi (710 kPa) 7.24 kg/cm² |
| Occupied floor pressure | 535 psf (25.62 kPa) 2612 kg/m² |

Note: Floor loading information is approximate and does not incorporate different option configurations. It should be used only with adequate safety factors.

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Continuous improvement of our products is a Genie policy. Product specifications are subject to change without notice or obligation.

PartNo. 133546  Z-30/20N • Z-30/20N RJ
**SPECIFICATIONS**

**Z-30/20N with rotating jib**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height, working maximum</td>
<td>35 ft 2 in 10.7 m</td>
</tr>
<tr>
<td>Height, platform maximum</td>
<td>29 ft 2 in 8.8 m</td>
</tr>
<tr>
<td>Height, stowed maximum</td>
<td>6 ft 7 in 2 m</td>
</tr>
<tr>
<td>Horizontal reach maximum</td>
<td>21 ft 6.4 m</td>
</tr>
<tr>
<td>Width</td>
<td>3 ft 11 in 1.2 m</td>
</tr>
<tr>
<td>Length, stowed</td>
<td>17 ft 5 in 5.3 m</td>
</tr>
<tr>
<td>Maximum load capacity</td>
<td>500 lb 227 kg</td>
</tr>
<tr>
<td>Maximum wind speed</td>
<td>28 mph 12.5 m/s</td>
</tr>
<tr>
<td>Wheelbase</td>
<td>5 ft 3 in 1.6 m</td>
</tr>
<tr>
<td>Turning radius (outside)</td>
<td>9 ft 10 in 3.0 m</td>
</tr>
<tr>
<td>Turning radius (inside)</td>
<td>5 ft 5 in 1.7 m</td>
</tr>
<tr>
<td>Turntable rotation</td>
<td>359°</td>
</tr>
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<td>Turntable tailswing</td>
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<tr>
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<tr>
<td>Platform leveling</td>
<td>self-leveling</td>
</tr>
<tr>
<td>Platform rotation</td>
<td>180°</td>
</tr>
<tr>
<td>Jib rotation</td>
<td>180°</td>
</tr>
<tr>
<td>AC outlet in platform</td>
<td>standard</td>
</tr>
<tr>
<td>Hydraulic pressure, (boom functions)</td>
<td>2800 psi 193 bar</td>
</tr>
<tr>
<td>System voltage</td>
<td>48V</td>
</tr>
<tr>
<td>Tire size (solid rubber)</td>
<td>22 x 7 x 17 3/4 in 56 x 18 x 45 cm</td>
</tr>
</tbody>
</table>

Vibration value does not exceed 2.5 m/s²

**Ground clearance** | 3 1/2 in 8.9 cm

**Weight** | See Serial Plate

(Machine weights vary with option configurations)

**Drive speeds**

<table>
<thead>
<tr>
<th>Speed</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive speed, stowed</td>
<td>3.0 mph 40 ft/9 sec 4.8 km/h 12.2 m/9 sec</td>
</tr>
<tr>
<td>Drive speed, booms raised or extended</td>
<td>0.7 mph 40 ft/40 sec 1.0 km/h 12.2 m/40 sec</td>
</tr>
</tbody>
</table>

**Maximum slope rating, stowed position**

<table>
<thead>
<tr>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Counterweight uphill</td>
<td>35% 19°</td>
</tr>
<tr>
<td>Counterweight downhill</td>
<td>20% 11°</td>
</tr>
<tr>
<td>Side slope</td>
<td>25% 14°</td>
</tr>
</tbody>
</table>

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

**Airborne noise emissions**

<table>
<thead>
<tr>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound pressure level at ground workstation</td>
<td>&lt; 70 dBA</td>
</tr>
<tr>
<td>Sound pressure level at platform workstation</td>
<td>&lt; 70 dBA</td>
</tr>
</tbody>
</table>

**Floor Loading Information**

<table>
<thead>
<tr>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tire load, maximum</td>
<td>7500 lbs 3402 kg</td>
</tr>
<tr>
<td>Tire contact pressure (per tire)</td>
<td>103 psi 710 kPa 7.24 kg/cm²</td>
</tr>
<tr>
<td>Occupied floor pressure</td>
<td>537 psf 25.71 kPa 2622 kg/m²</td>
</tr>
</tbody>
</table>

Note: Floor loading information is approximate and does not incorporate different option configurations. It should be used only with adequate safety factors.

Continuous improvement of our products is a Genie policy. Product specifications are subject to change without notice or obligation.
SPECIFICATIONS

Range of Motion

Range of Motion for Rotating Jib
<table>
<thead>
<tr>
<th>Country</th>
<th>Phone</th>
<th>Fax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Genie Sweden</td>
<td>0046 3157 5101</td>
<td>0046 3157 5104</td>
</tr>
<tr>
<td>Genie France</td>
<td>0033 237 260 996</td>
<td>0033 237 260 999</td>
</tr>
<tr>
<td>Genie Iberica</td>
<td>0034 900 908 110</td>
<td>0034 935 725 080</td>
</tr>
<tr>
<td>Genie Germany</td>
<td>0800 180 9017</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0049 4221 491 821</td>
<td>0049 4221 491 820</td>
</tr>
<tr>
<td>Genie U.K.</td>
<td>0044 1476 584 333</td>
<td>0044 1476 584 330</td>
</tr>
<tr>
<td>Genie Mexico City</td>
<td>+52 55 5666 5242</td>
<td>+52 55 5666 3241</td>
</tr>
<tr>
<td>Genie North America</td>
<td>425.881.1800</td>
<td>Fax 425.883.3475</td>
</tr>
<tr>
<td>Genie Australia Pty Ltd.</td>
<td>+61 7 3375 1660</td>
<td>+61 7 3375 1002</td>
</tr>
<tr>
<td>Genie China</td>
<td>+86 21 53853768</td>
<td>+86 21 53852569</td>
</tr>
<tr>
<td>Genie Singapore</td>
<td>+65 67533544</td>
<td>+65 67533544</td>
</tr>
<tr>
<td>Genie Japan</td>
<td>+81 3 6436 2020</td>
<td>+81 3 5445 1231</td>
</tr>
<tr>
<td>Genie Korea</td>
<td>+82 2 558 7267</td>
<td>+82 2 558 3910</td>
</tr>
<tr>
<td>Genie Brasil</td>
<td>+55 11 4082 5600</td>
<td>+55 22 4082 5630</td>
</tr>
<tr>
<td>Genie Holland</td>
<td>+31 183 581 102</td>
<td>+31 183 581 566</td>
</tr>
</tbody>
</table>

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800.536.1800