

LXHY380 SKID STEER LAODER

Product Introduction Manual



1. Product Serial Number

Write your machine model number, product serial number on the lines provided below. If needed, give these numbers to your dealer when you need parts or information about your machine.

Write these numbers down; keep these records in a safe place. If the machine is stolen, report the phone number to your local law enforcement agency.



Machine serial number	
Engine serial number	
Date of manufacture	
Manufacturer address	
Dealer address	

2. Intended Use

The LXHY380 is a crawler compact loader designed for compact construction work. The LXHY380 has a quick-connect mounting plate, which makes it easy for the operator to connect different attachments. The loader is designed to operate in temperatures typically encountered in earthmoving and construction work environments. Provisions for operation in extreme temperatures may be required. Contact your dealer. Use in any other manner is considered contrary to the intended use. The LXHY380 may only be operated, maintained and repaired by persons who are familiar with its particularities and are familiar with the relevant safety procedures.

3. Right front view

1. Walking track
2. Front hood
3. Machine body
4. Side cover
5. Lighting
6. Operation panel
7. Lifting arm
8. Front bracket



4. Left rear view

1. Operation platform
2. Engine compartment
3. Operation panel
4. Operation lever
5. Operation armrest
6. Exhaust pipe



5. Operational Controls



1. Left travel motor and bucket tilt control combination (push the handle forward, the left track wheel rotates forward, the vehicle turns right, pull the handle backward, vice versa; push the handle to the left, the bucket flips up, push the handle to the right, the bucket flips down);
2. Right travel motor and loader arm lifting control combination (push the handle forward, the right track wheel rotates forward, the vehicle turns left, pull the handle backward, vice versa; push the handle to the left, the boom drops, push the handle to the right, the boom rises);
3. Attachment control handle;
4. Throttle lever;
5. Ignition switch
6. Light and horn combination switch;
7. Working hour meter.
8. Indicator light;
9. Oil temperature gauge;
10. Fuel indicator;
11. Air damper;
12. External power supply;

6. Safety Rules



WARNING: This safety alert symbol indicates important safety information in this manual. When you see this symbol, read the following information carefully and be alert to the possibility of death or serious injury.

Safe operation is the operator's responsibility.

Most accidents are caused by operators not following safety rules. You can avoid accidents if you are aware of the dangers and pay enough attention before an accident occurs. Please read the safety rules carefully during maintenance, operation and refueling. Please see below for basic precautions and operations under dangerous conditions.



: This means being careful when operating a mini skid steer.

Keep your safety and pleasure.



WARNING

Operators must understand the following operating instructions

* You are responsible for understanding the maintenance guidelines and following the rules and regulations of the relationship



WARNING

All warnings are for your safety.

* When operating a mini skid steer loader, incorrect refueling result in dangerous or serious or fatal injuries.



* Never operate, maintain or refuel the machine until you fully understand the operator's manual.




This symbol indicates danger. When you see this symbol on a mini skid steer loader, you must be careful, otherwise it will cause dangerous or fatal injuries to the operator and bystanders. The operator panel and the operator's manual both have this symbol. We hope that you are aware of all dangers and can avoid accidents.


Each loader is thoroughly tested and inspected before delivery to the user. You should operate it carefully in the first 100 hours to keep all parts in good condition. Rough operation will shorten the service life or reduce the efficiency of use. For new equipment, you should pay attention to the following:


- Run the machine at idle speed for 5 minutes after starting.


- Avoid operating the loader at full speed.

- Avoid quick starts, rapid acceleration, unnecessary emergency stops or turns.
- When you change the filter, clean the dust and wipe it.
- If working in a harsh environment, check for all potential hazards.
- Please check the timetable for working hours.

 Hazard warnings are important and these symbols are closely related to the safety of the operator.

	WARNING
Warnings on the machine are for your safety. Violating the warnings may result in personal injury or death.	

	DANGEROUS
Danger symbol indicates that there is danger to the operator or equipment. Contrary to the danger sign, serious and fatal injury may occur.	

	IMPORTANTLY
This symbol indicates a procedure that the operator must follow to avoid damage to the machine.	


Safety warning symbols

Safety warning signs mean "Warning", "Danger", and "Safety", indicating many important safety information of the machine. When you see these symbols, you should pay attention to the possibility of serious injury or death. Please follow the following safety instructions.

7. Operation Guide

The loader needs to run for 100 hours to fully exert its capabilities. The following three steps should be performed when a new loader is used. These three steps are:


Hour	Loading weight
Less than 10 hours	About 60%
Less than 100 hours	About 80%
More than 100 hours	100%

 WARNING
Excessive use of the machine will deteriorate its condition and reduce its service life.

Before the first 100 hours, you should use it with caution.

Before starting the loader

Please read this manual before using the machine.
 Keep the steps clean and replace them promptly if damaged.
 Before starting the engine, all controlled accessories should be placed in their main positions.

 WARNING: To avoid accidents and fatal injuries, operators must read and study this manual carefully before operating. When operating the loader, keep your feet on the steps.
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Daily Check

To keep the machine in good working condition, the following checks should be performed:


- Engine cooling system
- Tires
- Loose or damaged parts
- Safety signs
- Control panel
- Fluid levels of coolant, engine oil, hydraulic oil, fuel, check for leaks
- Check and add lubricants regularly. Check instruments and indicator lights.
- Check that the machine is functioning properly. Add grease to the lubrication points daily.
- Tighten the screws.

Safe Driving

Note: Try to keep the machine in a low load state to ensure its stability.

When operating the arm to load, the weight core of the loader will be changed. So don't make quick turns or travel on a slope. When traveling and making quick turns, always lower the arm. Keep loading and turning on level ground.

When the machine is moving, the boom is lowered and the bucket is kept a certain distance from the ground to avoid hitting obstacles.

 DANGEROUS
When the boom is raised, do not start or turn it quickly, otherwise the machine will flip over and cause serious or fatal injuries. Please operate carefully at a low speed.

8. Control System



main power switch

1 . Electrical system protector

Turn the power switch handle clockwise to turn on the power. Turn the power switch handle counterclockwise to turn off the power.

Turn the power switch handle clockwise to turn on the power. Turn the power switch handle counterclockwise to turn off the power.

2 . Engine starting

Preparation before starting the engine: Turn on the main power switch, wait for the panel indicator light to light up, pull open the engine air volume regulator, push the hand throttle upwards a little, turn the key clockwise, and after the engine starts, close the engine air volume regulator.

NOTE: If the engine fails to start, turn the key counterclockwise, wait a moment (approximately 10-15 seconds), and then restart.

3. Engine shutdown

When shutting down the engine, push the hand throttle down to the minimum speed, turn the key counterclockwise, the engine stops, and turn off the main power switch.

4. Hand throttle

Move the hand throttle up (rabbit) to increase engine speed,



move the hand throttle down (turtle) to decrease engine speed.

Warning: When the hydraulic oil temperature reaches 75 degrees Celsius, the radiator fan will automatically activate

5. Preparation before work

Gather information. A successful job starts before you start the work. The first step in planning is to review existing information about the work and the work site.

Review blueprints or other plans. Check for information about existing or planned structures, elevations, or proposed work that may be performed simultaneously.

Arrange for traffic control. If working near roads or other traffic areas, check with local authorities about safety procedures and regulations.

Plan for emergency services. Have phone numbers for local emergency and medical facilities on hand. Check if you have access to a telephone.

Ground work. Locate overhead wires. Note the location and height of all overhead wires on the work site. Make sure fully raised accessories and/or loads do not touch the lines.

Inspect the site

Inspect the job site before transporting equipment. Check for:
Changes in elevation, such as hills or other open ditches
Obstructions, such as buildings, railroad crossings, or streams
Hazards on the job site that could result in death or serious injury. Use proper equipment and work methods. Use and maintain
Proper safety

Notice:

Wear personal protective equipment, including hard hats, safety eyewear, and hearing protection.

Do not wear jewelry or loose clothing.

Follow all utility notices before digging or drilling.

Confirm the location of previously marked underground hazards.

Clearly mark the worksite and keep spectators away from the site.

Remember, worksites are classified by hazard, not by the line being installed.

Classification work site

Check the work site

Check the site and surroundings for underground hazards such as:

- "Buried Utilities" notices
- Utilities without overhead lines
- Gas or water meters
- Junction boxes
- Floor boxes
- Light poles
- Manhole covers
- Sunken ground
- Mark the location of all buried utilities and obstructions.
- Categorize the work site.

Choose category

Work sites are classified according to the underground hazards present.

If it works...	Worksites are then classified as...
Within 10 feet (3 meters) of buried electrical wires	Electrical

Within 10 feet (3 meters) of a natural gas line	natural gas
In sand, granite or concrete that can produce crystalline silica (quartz) dust	Crystalline silicon dioxide (quartz) dust
Other hazards within 10 inches (3 meters)	Other hazards within 10 inches (3 meters)

NOTE: If you have any questions about the classification of a worksite, or if the worksite may contain unmarked hazards, take the steps outlined previously to identify the hazards and classify the worksite before working.

Application Notes

Once classified, preventive measures appropriate to the worksite must be taken.

Precautions at the work site

Use one or both of these methods. Expose the line through careful hand digging or soft excavation. Shut off service while the work is done. Have the power company test the line before restoring service.

Matters Needing Attention in Natural Gas Operation Site

Use one or both of these methods except locating the equipment upwind from the gas line. Expose the lines by careful hand digging or soft excavation. Shut off the gas while the work is in progress. Test the lines before the gas company restores service

Crystalline Silica (Quartz) Dust Prevention Measures

Follow OSHA or other guidelines for exposure to crystalline silica when trenching, sawing, or drilling through materials that could generate dust containing crystalline silica (quartz).

Other construction site considerations

You may need to use different methods to safely avoid other underground hazards. Talk with someone who understands the hazards present at each site to determine what precautions should be taken or whether the work should be attempted.

Check supplies and prepare equipment

Supplies

Fuel

Keys

Lubricants

Personal protective equipment such as hard hats and safety glasses

Fluid Level

Fuel

Hydraulic fluid

Battery charging

Engine oil

Condition and function

Air filter, oil filter, hydraulic filter

Tires/tracks

Pumps and motors

Hoses and valves

Signs, warnings and guards

appendix

If necessary, install a fire extinguisher near the power unit but away from possible ignition points. Fire extinguishers for fuel and electrical fires should always be classified. It should comply with legal and regulatory requirements.

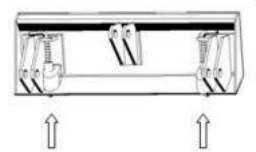
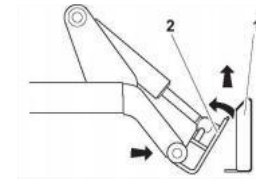
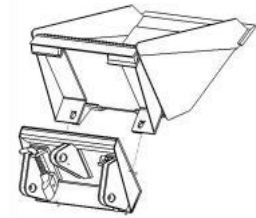
9. Connect accessories

appendix

IMPORTANT: Before connecting the unit, ensure that both the mounting plate and the receiver plate are free of dirt and debris.

1. Ensure the locking pin handle on the mounting plate (as shown) is away from the center of the attachment.
2. Start the engine.
3. Tilt the mount forward.
4. Position the mounting plate over the upper lip of the receiver plate on the attachment.
5. Raise the lift arm while tilting the rear mounting plate. **IMPORTANT:** The attachment should be raised enough to clear the ground. The mounting plate should be fully tilted back.
6. Ensure all controls are in the neutral position.
7. Turn the ignition off and remove the key.
8. Rotate the locking pin handle toward the center of the mounting plate to secure the attachment to the lift plate

NOTE: To ensure proper connection, verify that the bottom of the locking pin is visible under the attachment receiver plate.



Hydraulic hose

If the accessory requires hydraulic power to operate, connect the hydraulic hose. Fluid or air pressure can pierce the skin and cause serious injury or death. Stay away.



Notice:

1. Leaking pressurized fluid can cause injury or puncture of the skin and poisoning.
2. Before disconnecting hydraulic lines, turn off the engine and operate all controls to relieve pressure. Lower, block or support any raised parts. Cover the joints with a thick cloth and loosen the joint nuts slightly to release residual pressure. Catch all fluid in a container.
3. Before using the system, check that all connections are tight and all lines are undamaged.
4. Fluid leaks are difficult to detect. Use a piece of cardboard or wood, not your hands, to find leaks.
5. Wear protective clothing, including gloves and eye protection.
6. If you are injured, seek medical attention immediately from a doctor familiar with this type of injury. Hot areas may cause burns, do not touch after cooling.



CAUTION: Hydraulic couplings, hoses and fluids may become hot. When connecting and disconnecting hydraulic hoses, wear gloves and wait until the unit cools down before touching hydraulic components.

10. driver

Start the engine

1. Make sure all controls are in neutral.
2. Cool down the engine if necessary.
3. Move the throttle to half-open.
4. Turn the ignition switch to the start position and release it when the engine starts.
5. Push in the throttle after the engine is warm.

Emergency Stop: Turn the ignition switch to Stop.

The drive operates normally.

1. Pull the lift arm control to raise the mounting plate (and attachment) off the ground.
2. Move both wheel drive controls forward or reverse.

Slope Operation Guidelines

CAUTION: Hold attachment/load when working on a slope. Drive slowly and use caution at all times. When working up or down, the heavy end of the unit is uphill. Weight distribution varies depending on the attachment and load. For example, an empty bucket makes the rear of the unit the heavy end, while a full bucket makes the front of the unit the heavy end. Most attachments make the front of the unit the heavy end. Avoid starting, stopping or turning on a slope. If you must turn, hold the heavy end of the unit uphill. Without placing the parking device on the ground, return all control switches to the neutral position, turn the ignition to the stop position, and apply the parking brake.

Closure

1. Lower the lift arm to the ground.
2. Move all controls to the neutral position.
3. Run the engine at low idle speed and let it cool for three minutes.
4. Turn the ignition switch to stop.
5. Remove the key.

Note: The unit must not be parked on a slope when the parking brake is applied. When stopped, move all controls to the neutral position.



WARNING

When the oil tank is tilted, the angle of the tank cannot exceed 12°, otherwise the oil will overflow.

11. Machine Storage

Flushing equipment



Spray water on the unit to remove dirt and mud, especially on the undercarriage. CAUTION: Do not spray water on the operator's console. Electrical components may be damaged. Open the hood and clear debris from inside the unit. Remove mud from tracks or tires.

Disconnected

1. Lower the attachment to the ground.
2. Make sure all controls are in neutral.
3. Shut off the engine.
4. Release the locking pin by turning the handle away from the center of the attachment.
5. Cycle the attachment drive controls if used and disconnect the hydraulic hoses.
6. Move the brakes to the natural position.
7. Start the engine and tilt the mounting plate front and rear units away from the attachment.

Storage tools

Make sure all tools and attachments are loaded on the trailer.

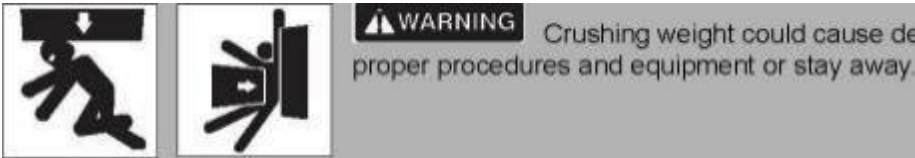
12. Maintenance equipment

Maintenance precautions

WARNING: Improper maintenance procedures could result in death, injury, or property damage. Learn to use your equipment properly.

NOTE: Unless otherwise instructed, all service maintenance should be performed with the engine shut off. Stop the engine and apply the parking brake before opening the hood for inspection or service. Allow the engine to cool before performing any maintenance. Refer to the engine manufacturer's manual for engine maintenance instructions. Lower attachments to the ground before servicing equipment.

Working under the lifting boom



CAUTION: Before working under lift arms, support both lift arms or move away from raised lift arms.



WARNING: Explosion may occur. Severe personal injury or equipment damage may occur. Follow instructions carefully.

Notice:

1. Sparks can cause the battery to explode.
2. 2. Electronic components can be easily damaged.

Lubricants

Proper lubrication and maintenance protect the equipment from damage and failure. The service intervals listed are for minimum requirements. In extreme cases, service the machine more frequently. Use only recommended lubricants.

NOTICE:

Use only genuine parts, filters and approved lubricants to maintain warranty. Use the Service Record to record all required service to your machine. **Refer to the engine manufacturer's manual for more information on engine lubrication and maintenance.**

10 hours

Check the engine oil level

Check the oil level at the dipstick opening every 10 hours. Check the hydraulic fluid level

Check the hydraulic fluid level every 10 hours.

Check the hydraulic hoses for leaks every 10 hours

WARNING: Liquid or air pressure may pierce the skin and cause personal injury or death, please stay away.

Precautions:

1. Escaping pressurized fluid can cause injury or poisoning by piercing the skin.
2. Before disconnecting hydraulic lines, turn off the engine and operate all controls to relieve pressure. Lower, block or support any raised parts. Cover the fittings with a thick cloth and loosen the fitting nuts slightly to relieve residual pressure. Catch all the fluid in the container.
3. Before using the system, check that all connections are tight and all lines are undamaged.

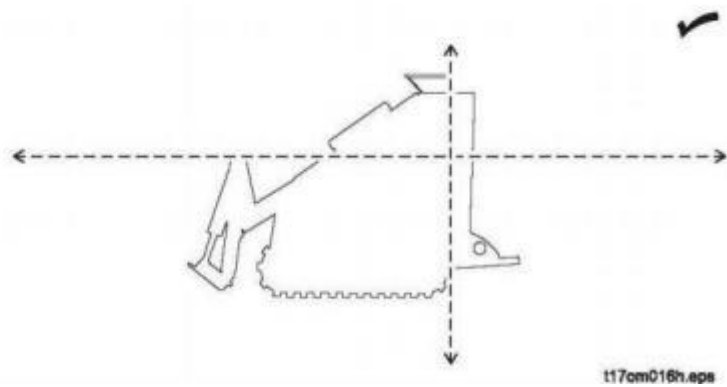
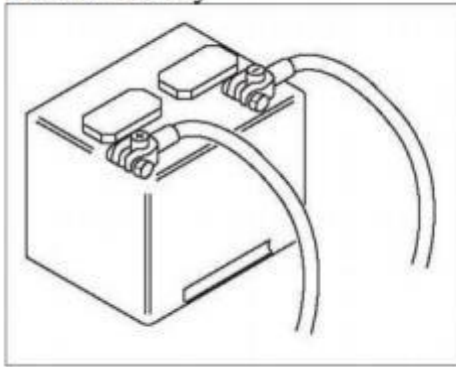


4. Fluid leaks may be difficult to detect. Use a piece of cardboard or wood, not your hands, to find leaks.
5. Wear protective clothing, including gloves and eye protection.
6. If you are injured, seek medical attention immediately from a physician familiar with this type of injury.

50 hours

position	Task	Remark
Traction device	Check the battery	
	Check the drive belt	
	Check the oil filter	
	Clean the oil cooler	
	Replace the hydraulic oil filter	

Check Battery



117cm016h.eps

Normal battery: 10-15 days of use in winter, 5-6 days of use in summer,

Maintenance-free battery: Check the battery every 50 hours to keep the battery and terminals clean and free of corrosion.

Battery storage: Store batteries in a cool, well-ventilated place, do not place them directly in the sun and avoid moisture. Do not hit it with metal tools during installation, and do not place metal tools on the battery.

Installing and removing the battery: Stop the engine and remove the key. First remove the negative cable, then remove the positive cable, loosen the mounting bolts, and remove the battery. Confirm the electrodes on the battery. When installing the battery, the installation method is opposite to the removal method.

Note: Make sure not to connect the positive and negative poles reversely

Operation notice: When operating, keep safety equipment such as glasses and rubber gloves according to your work situation. Be careful as the batteries contain acid. If the acid comes into contact with your skin or cloth, wash it immediately or serious injury or death may result. Keep batteries away from fire and heat. The battery can only be used to start the engine, otherwise it may cause damage to the battery or cause a fire. Please note when using the battery in winter: In winter, due to lower temperatures, the electrolyte will loosen and the battery power will decrease, so it is more difficult to start than in summer. Please be aware of battery leaks. Once the engine fails to start, do not restart it immediately. Wait for about a minute to allow the battery to store voltage again, and then restart it.

Note: Please pay special attention to check the battery and circuit in winter

Clean cooler

Clean the cooler every 50 hours. Operating in dusty conditions requires more frequent cleaning. Clean with compressed air or low pressure water.

NOTE: Be careful not to damage the cooler's fins.

Change hydraulic oil

Replace the hydraulic oil after 50 hours for initial use and then every 250 hours.

100 hours

Change engine oil

Change the engine oil every 100 hours.

200 hours

Check spark plugs and gaps

NOTE: See engine operator's manual for operating instructions.

Replace oil filter

Replace the oil filter every 200 hours.

250 hours

Location	Task	Remark
Towing device	Replace hydraulic oil filter	
	Replace air filter and check internal components	

Replace hydraulic oil filter

Replace hydraulic oil filter every 250 hours

500 hours

Change hydraulic oil

Replace hydraulic fluid every 500 hours.

Note: Hot areas may cause burns. Do not touch until cool.

NOTE: Wait for the engine to cool before touching parts or performing any service.

WARNING: Moving parts may amputate hands or feet.



NOTE: The engine hood should be opened for inspection or maintenance while the engine is running.

WARNING: Loss of control is possible and the machine could crush you or someone else. Learn how to use all the controls. Can only be started and operated from the operator's position.

NOTE: Do not leave the operator while the engine is running.

jump start unit



WARNING: Improper operation may result in death, injury or property damage. Please use the equipment correctly.

Things to note:

1. Construction or driving in flat areas
2. Place all drive controls in neutral
3. Lower all emptied attachments.
4. Turn off all electrical loads.
5. Turn off the engine and remove the key from the ignition switch.
6. Blocking wheels or tracks.



WARNING: Explosion may occur. Serious personal injury or equipment damage may occur.

Use caution.

stickers



⚠ DANGER

Moving the digger can hurt you or cut off your arm or leg, please stay away.



⚠ DANGER

Drive shafts can hurt you or crush your arms or legs, so stay away.



⚠ DANGER

electric shock. Contact with power lines can result in death or serious injury. Become familiar with the location of the lines and stay away from them.



⚠ DANGER

Deadly gas. Lack of oxygen or presence of gas can cause illness or death, provide ventilation.



⚠ WARNING

Worksite hazards can result in death or serious injury. Use the right equipment for the job method. Use and maintain appropriate safety equipment.



⚠ WARNING



Crush weight can cause death or serious injury. Use appropriate procedures and equipment, or stay away from equipment. Moving parts may cut off hands or feet, please stay away.

⚠ WARNING



Explosion possible. Serious personal injury or equipment damage may occur. follow instructions carefully



Improper procedures may result in death, injury, or property damage. Learn to use equipment correctly.



⚠ WARNING

Improper control function may result in death or serious injury. If the controls do not operate as specified, stop the machine and have it serviced.

⚠ WARNING



Liquid or air pressure may pierce skin, causing injury or death, please stay away.

⚠ WARNING



possible escape. The machine may run over you or someone else. Learn how to use all the controls Start up and operate from the operator's position only.

⚠ WARNING



Fire or explosion may occur. Smoke may ignite and cause burns

⚠ WARNING



Dangerous situations in moving traffic. May cause death or serious injury. Avoid moving vehicles, Wear high-visibility clothing and post appropriate warning signs.

⚠ CAUTION



Flying objects may cause injury. Wear a safety helmet

⚠ CAUTION



Hot areas may cause burns, do not touch until cool.

⚠ CAUTION



Exposure to high noise levels may lead to hearing loss. Hearing protection.

⚠ CAUTION



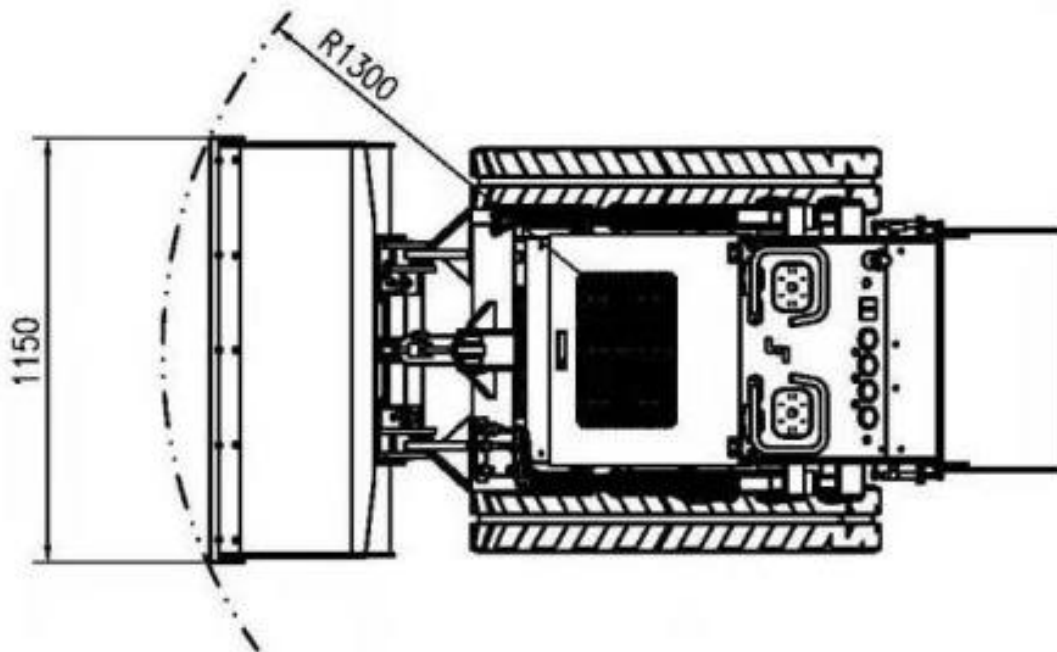
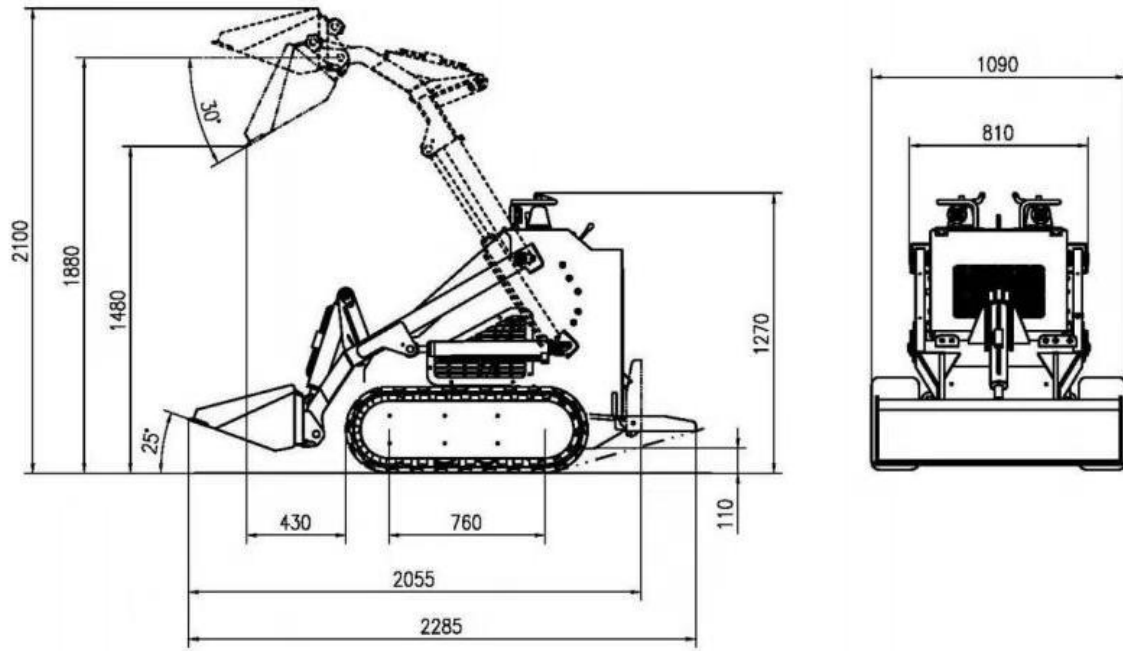
Possible falling, sliding or tripping could result in injury. Please keep the work area clean.

⚠ CAUTION



Battery acid may cause burns, avoid contact.

13. Specifications



LXHY380 Main dimensions and parameters

Ltem	LXHY380	
	With Rubber Track	
	Metric	U.S.
Max working height	2100 mm	82.7inch
Max pin height	1880 mm	74.01 inch
Max Dumping height	1480mm	58.26 inch
Max Dumping distance	430 mm	16.92 inch
Max Dumping Angle	30°	30°
Rollback of bucket on ground	25°	25°
Departure angle	27°	27°
Total height	1270mm	50 inch
Ground clearance	110 mm	4.33inch
Wheel base	760 mm	29.92inch
Overall length without bucket	1782mm	70.15 inch
Total width	810mm	31.88inch
Bucket width	1090 mm	42.91 inch
Total length with bucket	2285 mm	89.96 inch
Turn radius forward turning	1300 mm	51.18inch
overall length without the bucket after folding the pedal	1570 mm	61.81 inch
Engine		
Rated Power (KW)	18.2KW(23HP)	
Rotating speed (rpm)	3600	
Noise (Db)	≤95	
Hydraulic System		
Pressure (Mpa)	17	
Working Time (s)		
Raise	4	
Dump	1.3	
Lower	3.2	
Operating Load	280 Kg	617 Lb
Bucket Capacity	0.13 m ³	4.59 ft ³
Max Lifting Force	458Kg	1009Lb
Travel Speed	0-5.5Km/h	3.5 mlie/h
Operating Weight	880 Kg	1940 Lb

The size of LXHY380 is based on manual measurement and drawings. It is normal that there are objective errors. For reference, the actual object shall prevail.

14.support

1. Please notify the dealer immediately of any malfunction or malfunction of the equipment.
2. Please be sure to provide the model, serial number and approximate date of the device you purchased. This information should be recorded and kept on file at the time of purchase
3. If within the warranty period, return the damaged parts to the dealer for inspection and warranty consideration.
4. Order genuine replacement or repair parts from your authorized dealer. Use of parts from other manufacturers may void warranty consideration.
5. Contact your dealer for publications and videos on safety, operation, service and repair of your equipment.
6. For information on on-site personalized training, please contact your dealer.
7. If the above information is adjusted, no notice will be given.