

HUAYEE HY480C

HUAYEE HY480C Crawler Stand-On Mini Skid Steer Loader Instruction Manual

Model: HY480C | Brand: HUAYEE

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your new HUAYEE HY480C Crawler Stand-On Mini Skid Steer Loader. Please read this manual thoroughly before operating the machine to ensure proper usage and to prevent injury or damage. Keep this manual accessible for future reference.

2. SAFETY INFORMATION

Operating heavy machinery requires strict adherence to safety protocols. Failure to follow these instructions can result in serious injury or death.

2.1 General Safety Precautions

- Always read and understand the entire instruction manual before operation.
- Wear appropriate Personal Protective Equipment (PPE), including hard hat, safety glasses, hearing protection, safety footwear, and gloves.
- Ensure only trained and authorized personnel operate the machine.
- Keep bystanders, especially children and pets, away from the operating area.
- Inspect the machine before each use for any damage, loose parts, or leaks.

2.2 Operation-Specific Warnings

- **Rollover Hazard:** Operate on stable, level ground. Avoid steep slopes. Always wear the seatbelt if equipped, and ensure the Roll-Over Protective Structure (ROPS) is intact.
- **Pinch Points:** Keep hands and feet clear of moving parts, hydraulic cylinders, and attachment points.
- **Exhaust Fumes:** Operate in well-ventilated areas. Engine exhaust contains carbon monoxide, which is a colorless, odorless, and deadly gas.
- **Fuel Handling:** Refuel in a well-ventilated area with the engine off and cool. Do not smoke while refueling.
- **Load Capacity:** Never exceed the rated load capacity of 800 kg (1765 lbs). Overloading can cause instability and damage.

2.3 Emergency Procedures

- In case of emergency, immediately shut down the engine.
- Know the location of the nearest first-aid kit and emergency contact numbers.
- If the machine tips or rolls over, remain calm and stay within the ROPS until help arrives.

3. PRODUCT OVERVIEW

The HUAYEE HY480C is a robust crawler stand-on mini skid steer loader designed for various landscaping, farm, and construction tasks. It features a 23HP EPA certified gas engine and a three-pump hydraulic system for powerful and efficient operation.

3.1 Key Features

- **Engine:** 23HP EPA certified gasoline engine for reliable power and emissions compliance.
- **Traction:** Crawler track system provides superior grip and low ground pressure for stability on diverse terrains.
- **Hydraulics:** Three-pump hydraulic system ensures responsive and powerful attachment operation.
- **Attachment:** Comes standard with a heavy-duty bucket for immediate use.
- **Operator Comfort:** Stand-on platform and intuitive controls enhance productivity and reduce fatigue.

3.2 Component Identification



Figure 3.1: Front-side view of the red HUAYEE HY480C mini skid steer loader, equipped with a front bucket and crawler tracks.

SKID STEER LOADER



Instrument panel



RATO R740D Engine



Standing pedal



Hydraulic cylinder



Control levers



Crawler

HY480C

Compact design

Crawler-type

High-quality hydraulic systems

Figure 3.2: An exploded diagram highlighting key components of the HY480C, including the instrument panel, RATO R740D engine, standing pedal, hydraulic cylinder, control levers, and crawler tracks.

* PRODUCT DISPLAY *

HYDRAULIC CYLINDER

The lifting and lowering of the large arm through hydraulic operation is very easy and convenient.



Waterproof Instrument

Quick-reference operating hours



Crawler

The track design significantly increases stability, especially on uneven terrain.



Radiator

Using enlarged breathable mesh



Operating handle

The operation is simple and effortless.



High-Intensity Lamp

Can work in dim light conditions



Figure 3.3: Detailed views showing the hydraulic cylinder, waterproof instrument panel with fuel gauge, crawler track design, radiator with breathable mesh, operating handle, and high-intensity lamp.



Figure 3.4: Close-up images illustrating the control worktop, front work lights, durable rubber track, and the hydraulic cylinder (hydrocylinder).

4. SETUP AND ASSEMBLY

The HY480C is delivered with the bucket attachment. Follow these steps for initial setup.

4.1 Unpacking and Inspection

1. Carefully remove the machine from its packaging.
2. Inspect the loader for any signs of shipping damage. Report any damage to the carrier and supplier immediately.
3. Verify all components listed in the packing list are present.

4.2 Initial Checks

- Check engine oil level using the dipstick. Add oil if necessary, referring to the engine manual for specifications.
- Verify hydraulic fluid level. Ensure it is within the recommended range.

- Check fuel level. Use fresh, clean gasoline as specified in the engine manual.
- Inspect all hoses and connections for leaks or damage.
- Ensure battery terminals are clean and securely connected.

4.3 Attaching the Bucket

1. Position the loader on a flat, stable surface.
2. Align the bucket's attachment points with the loader's quick-hitch mechanism.
3. Engage the quick-hitch pins securely. Ensure they are fully locked into place.
4. Connect any hydraulic lines for the bucket if applicable (though the standard bucket typically does not require additional hydraulic lines beyond the lift/tilt).
5. Test the attachment by gently lifting and tilting the bucket to confirm secure connection.

5. OPERATING INSTRUCTIONS

Familiarize yourself with the controls and practice in an open area before beginning work.

5.1 Pre-Operation Checks

- Perform all checks listed in Section 4.2.
- Clear the work area of any obstacles or personnel.
- Adjust the operator platform and controls for comfortable access.

5.2 Starting the Engine

1. Ensure the parking brake is engaged.
2. Turn the ignition key to the 'ON' position.
3. If equipped, engage the choke for cold starts.
4. Turn the ignition key to 'START' and release once the engine fires. Do not crank for more than 5 seconds.
5. Allow the engine to warm up for a few minutes before operating.

5.3 Controls and Maneuvering

The HY480C uses intuitive control levers for movement and hydraulic functions.

- **Drive Levers:** Typically, two levers control the left and right tracks independently. Pushing both forward moves the machine forward; pulling both back moves it backward. Pushing one forward and pulling the other back allows for turning.
- **Lift/Tilt Levers:** Separate levers or a joystick control the lifting and lowering of the loader arms and the tilting of the bucket.
- **Throttle:** Controls engine speed and power output.

5.4 Using the Bucket

1. Approach material slowly with the bucket lowered and slightly tilted forward.
2. Drive into the material, lowering the bucket to scoop.
3. Tilt the bucket back to secure the load.
4. Lift the loader arms to the desired height for transport or dumping.
5. Transport loads with the bucket as low as possible for stability.
6. To dump, raise the bucket to the desired height and tilt it forward.

5.5 Shutting Down

1. Park the machine on a level surface.

2. Lower the loader arms and tilt the bucket flat on the ground.
3. Engage the parking brake.
4. Reduce engine speed to idle and allow it to cool down for a few minutes.
5. Turn the ignition key to the 'OFF' position.
6. Remove the key to prevent unauthorized use.

6. MAINTENANCE

Regular maintenance is crucial for the longevity and safe operation of your HY480C.

6.1 Daily Checks

- Check engine oil, hydraulic fluid, and fuel levels.
- Inspect tracks for damage or excessive wear.
- Check all hydraulic hoses and fittings for leaks.
- Ensure all safety decals are present and legible.
- Clean debris from the radiator and engine compartment.

6.2 Scheduled Maintenance

- **Engine Oil:** Change engine oil and filter according to the engine manufacturer's recommendations (typically every 50-100 hours).
- **Air Filter:** Inspect and clean/replace the engine air filter regularly, especially in dusty conditions.
- **Hydraulic System:** Check and replace hydraulic fluid and filter as per manufacturer guidelines.
- **Greasing:** Lubricate all grease points on the loader arms, pivot points, and attachments regularly.
- **Tracks:** Inspect track tension and adjust as needed. Clean debris from the track system.
- **Battery:** Check battery fluid levels (if applicable) and terminal cleanliness.

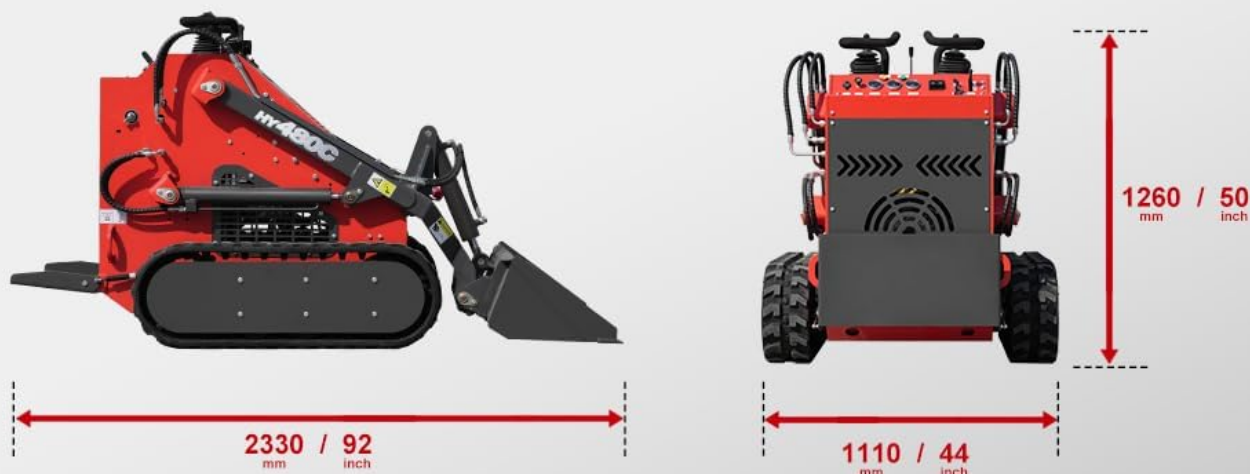
7. TROUBLESHOOTING

This section provides solutions for common operational issues. For problems not listed or if solutions do not resolve the issue, contact qualified service personnel.

Problem	Possible Cause	Solution
Engine will not start	No fuel, dead battery, faulty ignition, clogged fuel filter	Check fuel level, charge/replace battery, inspect ignition system, replace fuel filter
Loss of hydraulic power	Low hydraulic fluid, clogged hydraulic filter, damaged pump/hose	Check hydraulic fluid level, replace hydraulic filter, inspect for leaks/damage
Machine moves slowly or weakly	Low engine RPM, overloaded, track issues	Increase throttle, reduce load, inspect tracks for debris or damage
Excessive engine smoke	Incorrect fuel/oil, clogged air filter, engine malfunction	Verify fuel/oil type, clean/replace air filter, consult service technician

8. SPECIFICATIONS

Detailed technical specifications for the HUAYEE HY480C Mini Skid Steer Loader.



HY480C SKID STEER LOADER PARAMETERS

Rated load :	560kg/1234lbs	Lifting time :	4.6s
Bucket volume :	0.15m ³	Descent time :	3.2s
Maximum lift :	800kg/1765lbs	Dumping time :	2.4s
Working speed :	0~4.3km/h	Climbing ability :	30°
Rated pressure :	17mpa	Work weight :	930kg/2050lbs

Figure 8.1: A diagram showing the length, width, and height of the HY480C, alongside a table detailing rated load, bucket volume, maximum lift, working speed, rated pressure, lifting time, descent time, dumping time, climbing ability, and work weight.

HUAYEE

HY480C



STRONG POWER



COMPACT AND FLEXIBLE



WORK EFFICIENTLY



DIVERSIFICATION OF USE



Figure 8.2: An image displaying the work weight (930kg/2050lbs), output power (23hp), and unloading height (1470mm/58in) of the HY480C.

Specification	Value
Brand	HUAYEE
Model	HY480C
Engine	23HP EPA Certified Gas Engine
Load Capacity	800 KG (1765 lbs)
Item Weight	2200 pounds (998 kg)
Product Dimensions (L x W x H)	92 x 44 x 50 inches (2330 x 1110 x 1260 mm)
Bucket Volume	0.15 m ³

Specification	Value
Working Speed	0-4.3 km/h
Rated Pressure	17 MPa
Lifting Time	4.6 seconds
Descent Time	3.2 seconds
Dumping Time	2.4 seconds
Climbing Ability	30°
Unloading Height	1470 mm (58 inches)

9. WARRANTY AND SUPPORT

Your HUAYEE HY480C Mini Skid Steer Loader is backed by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact HUAYEE customer support.

9.1 Customer Support

For technical assistance, parts inquiries, or warranty claims, please contact HUAYEE customer support. Contact information can typically be found on the manufacturer's website or in your purchase documentation. Additionally, a 4-Year Protection Plan may be available for extended coverage. Please inquire with your retailer for details.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question