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> HTC Shear Model 250-10A Installation & Operating Instruction Manual

## HTC 250-10A

# HTC Shear Model 250-10A Installation & Operating Instruction Manual

Comprehensive guide for the safe and efficient use of your HTC Hydraulic Shear.

## 1. INTRODUCTION

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This manual provides essential information for the installation, operation, and maintenance of the HTC Shear Model 250-10A hydraulic shear. Read this manual thoroughly before attempting to install or operate the machine. Proper understanding and adherence to these instructions will ensure safe operation, optimal performance, and extended service life of your equipment.

For any questions or assistance, please refer to the support section.

## 2. SAFETY INSTRUCTIONS

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### 2.1 General Safety

- Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and steel-toed boots.
- Ensure the work area is clean, well-lit, and free from obstructions.
- Never operate the shear under the influence of drugs or alcohol.
- Only trained and authorized personnel should operate or maintain this equipment.

### 2.2 Electrical Safety

- Ensure the machine is properly grounded.
- Disconnect power before performing any maintenance or adjustments.
- Do not operate with damaged power cords or plugs.

### 2.3 Hydraulic Safety

- Check hydraulic fluid levels regularly.

- Be aware of high-pressure hydraulic lines; leaks can cause serious injury.
- Use only recommended hydraulic fluids.

## 3. SETUP AND INSTALLATION

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### 3.1 Unpacking and Inspection

Carefully unpack the HTC Shear Model 250-10A. Inspect all components for any shipping damage. Report any damage to the carrier immediately. Verify that all parts listed in the packing list are present.

### 3.2 Site Preparation

The shear requires a level, stable concrete foundation capable of supporting its weight and operational forces. Ensure adequate space around the machine for safe operation and maintenance access. Provide proper ventilation and lighting.

### 3.3 Electrical Connection

Connect the shear to a dedicated electrical circuit as specified in the electrical requirements section (refer to Section 7). Ensure all connections comply with local electrical codes. A qualified electrician should perform this step.

### 3.4 Hydraulic System Initial Fill

Fill the hydraulic reservoir with the recommended hydraulic fluid (refer to Section 7) to the specified level. Bleed air from the hydraulic system according to the detailed procedure outlined in the service manual.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Pre-Operation Checklist

- Verify all safety guards are in place and functional.
- Check hydraulic fluid level.
- Inspect blades for sharpness and damage.
- Ensure the work area is clear.
- Confirm emergency stop buttons are accessible and operational.

### 4.2 Starting the Machine

1. Turn the main power switch to the "ON" position.
2. Press the "START" button on the control panel.
3. Allow the hydraulic pump to build pressure (indicated by pressure gauge).

### 4.3 Shearing Procedure

1. Position the material to be cut firmly against the back gauge and hold-downs.
2. Ensure fingers and clothing are clear of the blade area.
3. Activate the shear cycle using the foot pedal or control buttons.
4. Wait for the blade to complete its cycle and return to the up position before removing the cut material.

### 4.4 Stopping the Machine

- Press the "STOP" button on the control panel.

- Turn the main power switch to the "OFF" position when finished operating or leaving the machine unattended.
- In an emergency, press the nearest emergency stop button.

## 5. MAINTENANCE

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### 5.1 Daily Maintenance

- Clean the machine, removing all metal scraps and debris.
- Check hydraulic fluid level.
- Inspect blades for wear or damage.
- Lubricate moving parts as specified in the lubrication chart.

### 5.2 Weekly Maintenance

- Check and adjust blade gap if necessary.
- Inspect hydraulic hoses and fittings for leaks.
- Clean or replace air filters.

### 5.3 Periodic Maintenance

- Change hydraulic fluid and filter (every 2000 operating hours or annually).
- Inspect electrical connections for tightness.
- Calibrate back gauge and other measuring systems.

## 6. TROUBLESHOOTING

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### Common Issues and Solutions

Problem	Possible Cause	Solution
Machine does not start	No power supply; Emergency stop engaged; Low hydraulic fluid	Check power connection; Reset emergency stop; Replenish hydraulic fluid
Poor cut quality	Dull blades; Incorrect blade gap; Material not held securely	Sharpen or replace blades; Adjust blade gap; Check hold-down pressure
Hydraulic system overheating	Low fluid level; Clogged filter; Malfunctioning cooler	Check fluid level; Replace filter; Inspect and repair cooler

If the problem persists after attempting these solutions, contact authorized service personnel.

## 7. SPECIFICATIONS

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### HTC Shear Model 250-10A Technical Data

Parameter	Value
Model	250-10A
Type	Hydraulic Shear

Parameter	Value
Cutting Length	10 feet (3050 mm)
Cutting Capacity (Mild Steel)	1/4 inch (6.35 mm)
Motor Power	15 HP (11 kW)
Hydraulic Tank Capacity	40 Gallons (150 Liters)
Weight	Approx. 15,000 lbs (6800 kg)
Dimensions (L x W x H)	Approx. 150 x 70 x 80 inches (3810 x 1778 x 2032 mm)
Electrical Requirements	480V, 3 Phase, 60 Hz
Recommended Hydraulic Fluid	ISO VG 46

## 8. WARRANTY INFORMATION

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Specific warranty details for the HTC Shear Model 250-10A are typically provided at the time of purchase. Please refer to your purchase documentation or contact your authorized HTC dealer for comprehensive warranty terms and conditions. Generally, HTC products are covered against defects in materials and workmanship for a specified period from the date of installation or purchase.

*Note: This manual does not contain the full warranty statement.*

## 9. CUSTOMER SUPPORT

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For technical assistance, spare parts, or service inquiries regarding your HTC Shear Model 250-10A, please contact your local authorized HTC distributor or the HTC customer service department.

When contacting support, please have your machine's model number (250-10A) and serial number readily available to expedite service.

**Online Resources:** Visit the official HTC website for additional resources, FAQs, and product updates [www.htc.com](http://www.htc.com)

