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› [LandHonor](#) /

› [LandHonor LDH-DCM250G 66 Gallon Double Discharge Concrete Mixer Instruction Manual](#)

LandHonor LDH-DCM250G

LandHonor LDH-DCM250G 66 Gallon Double Discharge Concrete Mixer Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of the LandHonor LDH-DCM250G Double Discharge Concrete Mixer. This heavy-duty skid steer mounted attachment is designed for mixing and dispensing concrete in various construction applications. It features a 66-gallon capacity and is capable of handling up to 3000 PSI hydraulic pressure.

The mixer offers versatile material dispensing options, including a manual side chute, a hydraulically operated center chute with a dispenser hose, and direct front discharge. Understanding the contents of this manual is crucial for ensuring optimal performance and longevity of the equipment.

2. SAFETY INFORMATION

General Safety Warnings

Always prioritize safety when operating heavy machinery. Failure to follow safety instructions can result in serious injury or death.

- Read and understand all instructions in this manual before operating the concrete mixer.
- Ensure all personnel in the work area are aware of the equipment's operation and potential hazards.
- Wear appropriate personal protective equipment (PPE), including hard hat, safety glasses, hearing protection, and steel-toed boots.
- Never operate the mixer under the influence of drugs or alcohol.
- Keep hands, feet, and clothing clear of all moving parts.
- Before performing any maintenance or adjustments, ensure the skid steer engine is off, hydraulic pressure is relieved, and the mixer is securely on the ground.
- Inspect the mixer for damage or wear before each use. Do not operate if damaged.

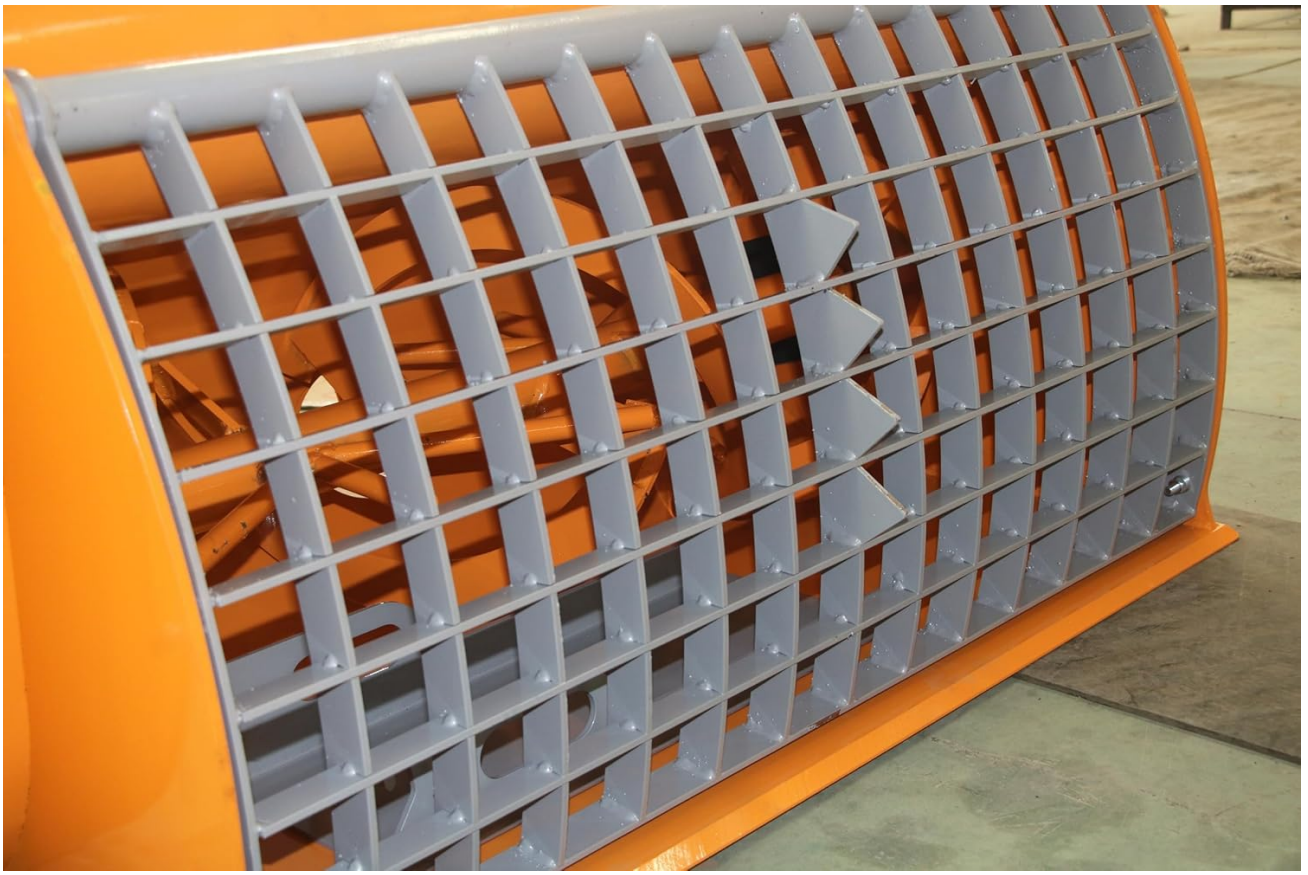


Figure 2.1: Side view of the mixer with safety warning labels. Visible labels indicate crush hazards and the importance of locking out power before servicing.

3. PRODUCT OVERVIEW AND COMPONENTS

The LandHonor LDH-DCM250G concrete mixer is designed for robust performance and versatility. Key components include the main mixing drum, hydraulic motor, chain and sprocket drive system, protective grate, manual side discharge chute, and the hydraulically controlled center discharge system.



Figure 3.1: The LandHonor LDH-DCM250G Double Discharge Concrete Mixer, showcasing its main body, hydraulic hoses, and the manual side discharge chute. The flexible center discharge hose is also visible.



Figure 3.2: An angled perspective of the concrete mixer, emphasizing the manual side chute mechanism and the flexible hose for the hydraulically operated center discharge, positioned on a wooden pallet.

Key Features:

- **Double Discharge System:** Allows for dispensing concrete via a manual side chute or a hydraulically operated center chute with a hose.
- **High Capacity:** 66 Gallons (250 Liters) volume for efficient mixing.
- **Robust Drive:** Chain and sprocket drive system ensures durability.
- **Skid Steer Compatibility:** Designed for easy attachment to most skid steer loaders.
- **Aggregate Handling:** Accommodates aggregates up to 1.25 inches in diameter.



Figure 3.3: A detailed view of the robust grate located inside the mixer's hopper, designed to prevent large debris from entering the mixing chamber and to ensure material consistency.



Figure 3.4: This image provides a close-up of the hydraulic control valve system, which manages the mixer's functions, including the rotation of the mixing paddles and the operation of the hydraulic center discharge chute.

4. SETUP AND INSTALLATION

4.1 Mounting to Skid Steer

1. Ensure the skid steer is parked on a level surface, engine off, and parking brake engaged.
2. Align the mixer's universal skid steer mounting plate with the skid steer's quick attach system.
3. Engage the quick attach levers to secure the mixer to the skid steer. Verify that the attachment is fully locked into place.

4.2 Hydraulic Connections

1. Connect the hydraulic hoses from the mixer to the auxiliary hydraulic ports on the skid steer. Ensure connections are clean and free of debris.
2. Verify that the hydraulic hoses are securely connected and not twisted or kinked.
3. Start the skid steer and slowly cycle the auxiliary hydraulics to check for leaks and proper function.



Figure 4.1: The LandHonor concrete mixer shown securely attached to a Bobcat S220 skid steer loader, demonstrating its operational configuration.

5. OPERATION

5.1 Mixing Concrete

1. With the mixer attached and hydraulic lines connected, lower the mixer to the ground.
2. Scoop up the desired amount of aggregate (sand, gravel) using the mixer's bucket-like design. Ensure the protective grate is in place.
3. Add cement and water according to the desired concrete mix ratio.
4. Engage the skid steer's auxiliary hydraulics to start the mixing paddles. Allow sufficient time for thorough mixing until a uniform consistency is achieved.

5.2 Dispensing Concrete

The LDH-DCM250G offers three methods for dispensing mixed concrete:

- **Manual Side Chute:** Position the mixer over the desired discharge area. Operate the manual lever on the side of the mixer to open the chute and dispense concrete.
- **Hydraulic Center Chute with Hose:** For precise placement or filling sandbags, attach the dispenser hose to the hydraulically operated center chute. Use the skid steer's auxiliary controls to open and close the center chute, directing concrete through the hose.
- **Front Discharge:** For large, rapid pours, the mixer can be tilted forward to discharge the entire batch directly from the front opening.

6. MAINTENANCE

Regular maintenance is essential for the longevity and reliable operation of your concrete mixer.

- **Cleaning:** Thoroughly clean the mixer immediately after each use to prevent concrete from hardening on internal surfaces. Use water and a stiff brush.
- **Lubrication:** Periodically lubricate all grease points, especially on the chain and sprocket drive system, and moving parts of the discharge chutes.
- **Hydraulic System:** Check hydraulic hoses and fittings for leaks, wear, or damage. Replace any compromised components immediately. Ensure hydraulic fluid levels in the skid steer are maintained.
- **Inspections:** Regularly inspect the mixing paddles, grate, and structural components for wear, cracks, or damage. Tighten any loose bolts or fasteners.
- **Storage:** When not in use, store the mixer in a clean, dry area to prevent corrosion.

7. TROUBLESHOOTING

This section addresses common issues that may arise during the operation of the concrete mixer.

- **Mixer Not Operating:** Check hydraulic connections for proper attachment and ensure the skid steer's auxiliary hydraulics are engaged. Verify sufficient hydraulic fluid level and pressure.
- **Poor Mixing Quality:** Ensure the correct proportions of materials are being used. Check mixing paddles for wear or obstruction.
- **Discharge Chute Malfunction:** Inspect the manual lever mechanism for obstructions or damage. For the hydraulic center chute, check hydraulic lines and control valve for proper function.
- **Unusual Noises:** Immediately cease operation and inspect the chain and sprocket drive system for debris, wear, or misalignment. Check for loose components.

If issues persist after attempting these troubleshooting steps, contact LandHonor customer support.

8. SPECIFICATIONS

Specification	Value
Model Number	LDH-DCM250G
Weight	765 lbs.

Specification	Value
Flow Range	15 - 20 GPM
Max Pressure	3000 PSI
Hoses	3/8" - 3500 PSI
Volume	66 Gallons / 250 Liters
Drive Base	Chain and Sprocket Drive
Height	34"
Width of Hopper	51"
Depth	26"
Max Aggregate Size	1.25" Diameter
Product Dimensions	60 x 40 x 36 inches

9. WARRANTY AND SUPPORT

LandHonor products are manufactured to high-quality standards and are backed by a manufacturer's warranty. For specific warranty details, including coverage period and terms, please refer to the warranty card included with your purchase or visit the official LandHonor website.

For technical assistance, parts inquiries, or warranty claims, please contact LandHonor customer support:

- **Email:** support@landhonor.com (Example)
- **Phone:** 1-800-XXX-XXXX (Example)
- **Website:** www.landhonor.com (Example)

Please have your model number (LDH-DCM250G) and purchase date available when contacting support.