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› GZWSGHH Universal Hydraulic Thumb Clip for Mini Excavators (0.8-1.5 Tons), Model Hydraulic Thumb Clamp 1

## GZWSGHH Hydraulic Thumb Clamp 1

# GZWSGHH Universal Hydraulic Thumb Clip Instruction Manual

Model: Hydraulic Thumb Clamp 1 (Part No. 987699)

For Mini Excavators (0.8 - 1.5 Tons)

## 1. INTRODUCTION

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The GZWSGHH Universal Hydraulic Thumb Clip is an essential attachment designed to enhance the material handling capabilities of mini excavators weighing between 0.8 and 1.5 tons. This robust and versatile tool provides an extra grip, allowing operators to secure and manipulate various materials such as logs, rocks, and debris with precision and efficiency. Its durable construction and flexible operation make it suitable for a wide range of applications, including landscaping, construction, recycling, and utility work.

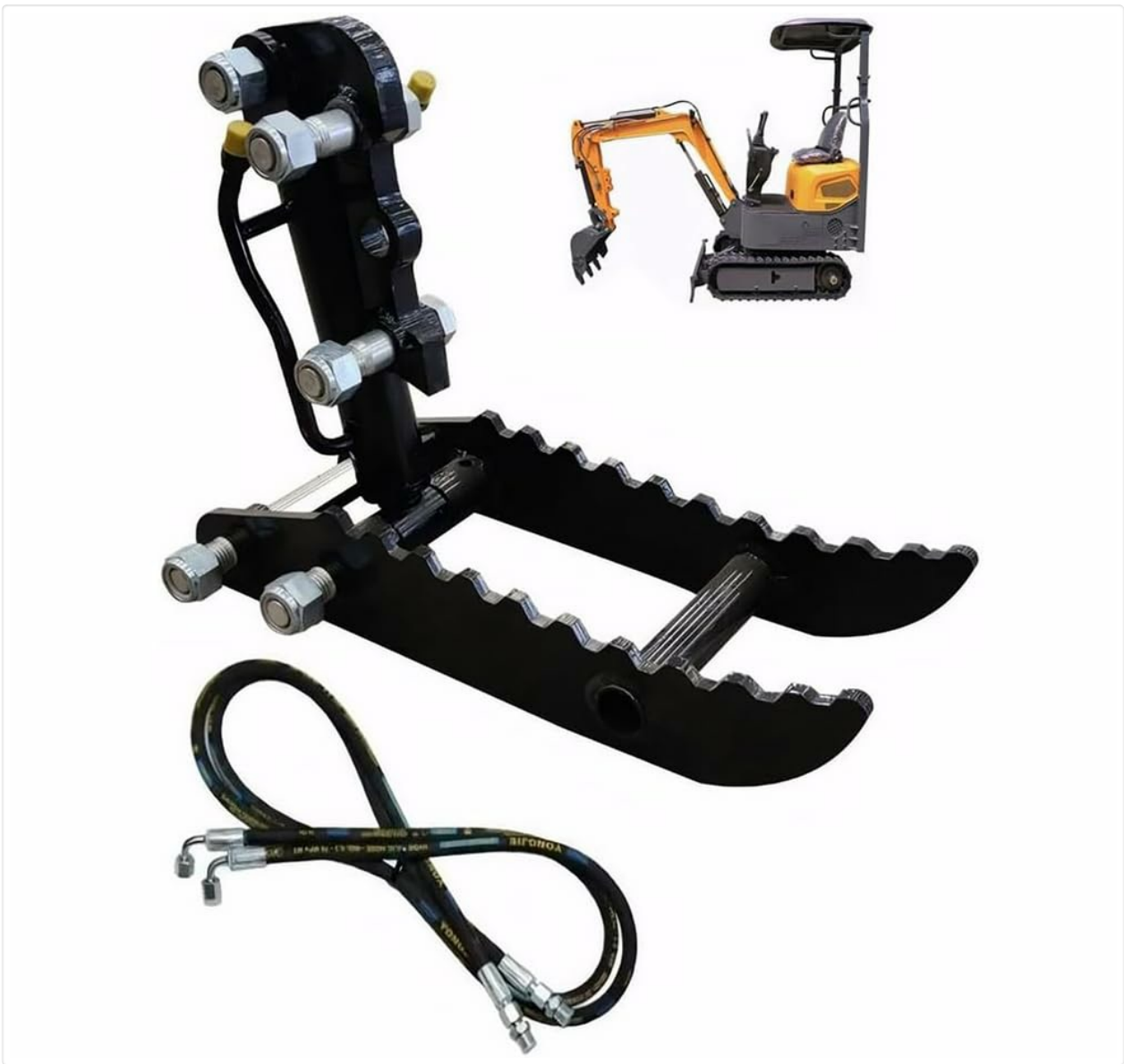


Image 1.1: The GZWSGHH Hydraulic Thumb Clip mounted on a mini excavator, ready for operation.

## 2. SAFETY INFORMATION

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Always prioritize safety when operating heavy machinery and attachments. Failure to follow safety guidelines can result in serious injury or property damage.

- **Read the Excavator Manual:** Familiarize yourself with your excavator's operation and safety procedures before installing or using this attachment.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including hard hat, safety glasses, gloves, and steel-toed boots.
- **Pre-Operation Inspection:** Before each use, inspect the hydraulic thumb clip for any signs of damage, wear, or loose connections. Ensure all hydraulic lines are secure and free from leaks.
- **Secure Attachment:** Verify that the thumb clip is correctly and securely attached to the excavator bucket and arm.
- **Clear Work Area:** Ensure the work area is clear of personnel, obstacles, and overhead hazards.
- **Stable Ground:** Operate the excavator on stable, level ground to prevent tipping.
- **Hydraulic Pressure:** Be aware of hydraulic pressure. Never attempt to disconnect hydraulic lines under pressure.

- **Load Capacity:** Do not exceed the lifting or gripping capacity of your excavator or the thumb attachment.
- **Maintenance Safety:** Disengage power and relieve hydraulic pressure before performing any maintenance or adjustments.

### 3. PACKAGE CONTENTS

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Upon unpacking, ensure all components are present and undamaged. The standard package for the Hydraulic Thumb Clamp 1 includes:

- 1 x Hydraulic Thumb Clamp assembly
- 2 x Hydraulic Oil Pipes
- 2 x Connecting Pins
- Necessary fasteners (bolts, nuts, washers)

### 4. SETUP AND INSTALLATION

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The GZWSGHH Hydraulic Thumb Clip is designed for straightforward installation. It utilizes a pin shaft connection system for secure attachment to your mini excavator.

1. **Prepare the Excavator:** Park the excavator on a level surface, lower the bucket to the ground, and shut off the engine. Engage the parking brake and relieve hydraulic pressure.
2. **Position the Thumb Clip:** Align the mounting points of the hydraulic thumb clip with the corresponding attachment points on your excavator's arm, typically near the bucket.
3. **Insert Connecting Pins:** Insert the provided connecting pins through the aligned holes to secure the thumb clip to the excavator arm. Ensure the pins are fully seated and secured with their retaining mechanisms.
4. **Connect Hydraulic Hoses:** Connect the two hydraulic oil pipes from the thumb clip to the auxiliary hydraulic lines on your excavator. Ensure connections are tight and free from leaks. Refer to your excavator's manual for specific auxiliary hydraulic port locations and connection procedures.
5. **Test Operation:** Start the excavator and slowly test the hydraulic thumb's movement. Extend and retract the thumb to ensure smooth operation and proper hydraulic function. Check for any leaks or unusual noises.



Image 4.1: An excavator with the hydraulic thumb clip installed, demonstrating its integration.



Image 4.2: The hydraulic thumb clip shown with another attachment, highlighting its versatile mounting.

## 5. OPERATING INSTRUCTIONS

The hydraulic thumb clip provides powerful grasping ability, making it an invaluable tool for various tasks. Its compact design allows for flexible operation.

- **Grasping Materials:** Position the excavator bucket and thumb around the material you wish to grasp. Use the excavator's hydraulic controls to close the thumb, securing the material firmly against the bucket.
- **Material Handling:** Once the material is secured, you can lift, move, and place it with greater control than using the bucket alone. This is particularly useful for irregularly shaped objects like logs, rocks, or demolition debris.
- **Folding/Unfolding:** The hydraulic thumb can be easily folded or unfolded as needed. When not in use for gripping, retract the thumb to keep it out of the way for standard digging operations.
- **Applications:** This attachment is effective in various scenarios, including:
  - **Landscaping:** Retaining mulch, placing boulders, clearing brush.
  - **Construction:** Handling demolition debris, moving pipes or structural elements.
  - **Recycling/Scrap:** Sorting and moving scrap materials.
  - **Utility Work:** Positioning utility poles or other infrastructure components.

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Video 5.1: Demonstration of the GZWSGHH Hydraulic Thumb Clamp in operation, showing its ability to grasp and move logs with a mini excavator.



Image 5.2: The hydraulic thumb clip in action, demonstrating its effectiveness in handling different materials like mud and rocks.



Image 5.3: The thumb clip securely grasping a pile of logs, showcasing its powerful grip.



Image 5.4: The thumb clip demonstrating its ability to handle cylindrical objects like pipes.



Image 5.5: An excavator equipped with the hydraulic thumb clip and an auger, illustrating multifunctional use.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your hydraulic thumb clip.

- **Daily Inspection:** Check for loose bolts, damaged hydraulic lines, and excessive wear on the thumb tines.
- **Lubrication:** Regularly grease all pivot points and moving parts to reduce friction and wear.
- **Hydraulic System:** Monitor hydraulic fluid levels and inspect hoses for cracks, abrasions, or leaks. Replace damaged hoses immediately.
- **Cleaning:** Keep the thumb clip free from excessive dirt, mud, and debris, especially around hydraulic cylinders and pivot points.
- **Storage:** When not in use for extended periods, store the attachment in a clean, dry place to prevent corrosion.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter with your hydraulic thumb clip.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Thumb not moving or slow movement	Low hydraulic fluid level, clogged hydraulic filter, damaged hydraulic hose, faulty control valve.	Check hydraulic fluid, inspect/replace filter, check hoses for damage, consult excavator manual for valve diagnostics.
Hydraulic fluid leak	Loose fittings, damaged hose, worn seals in cylinder.	Tighten fittings, replace damaged hose, consult a qualified technician for seal replacement.
Poor gripping force	Insufficient hydraulic pressure, worn thumb tines, incorrect operation.	Check excavator's hydraulic pressure settings, inspect thumb tines for wear and replace if necessary, ensure proper technique.
Excessive noise during operation	Lack of lubrication, loose components, hydraulic cavitation.	Lubricate pivot points, tighten all fasteners, check hydraulic fluid for air bubbles.

If troubleshooting steps do not resolve the issue, contact a qualified service technician or the manufacturer for assistance.

## 8. SPECIFICATIONS

Feature	Detail
Model	Hydraulic Thumb Clamp 1
Part Number	987699
Compatibility	Mini Excavators 0.8 - 1.5 Tons
Pin Shaft Connection Aperture	25mm
Pin Shaft Length	160mm
Material	Special wear-resistant manganese steel plate
Manufacturer	GZWSGHH Co., Ltd.



Image 8.1: Detailed dimensions of the Hydraulic Thumb Clamp and its connecting components.

## 9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase or contact your seller directly. GZWSGHH Co., Ltd. is committed to providing quality products and support. For technical assistance or inquiries, please reach out to your authorized dealer or the manufacturer's customer service channels.