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## MXBAOHENG 9999

# MXBAOHENG Polyurethane Grouting Injection Machine User Manual

Model: 9999

## 1. INTRODUCTION

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This user manual provides comprehensive instructions for the safe and efficient operation, maintenance, and troubleshooting of the MXBAOHENG 910W High-Pressure Grouting Injection Machine. This machine is designed for concrete leak repair, specifically for grouting, consolidation grouting, crack reinforcement grouting, and similar applications in residential, engineering, and building structures, including concrete cracks, expansion joints, construction joints, and structural joints in buildings and underground concrete projects.



Figure 1.1: Complete kit of the MXBAOHENG 910W High-Pressure Grouting Injection Machine, including the main unit, high-pressure hose, nozzle, safety glasses, gloves, and various tools.

## 2. SAFETY INSTRUCTIONS

Adherence to the following safety guidelines is crucial for preventing injury and damage to the equipment.

- **Prohibited Test Liquids:** Do not use water or diluents such as ketone, Tianna water, or xylene for testing the polyurethane injection machine. These substances can cause damage to vulnerable parts, lead to stuck pumps, or burn out components due to lack of pressure.
- **Recommended Test Liquid:** Always use oil or edible oil for machine testing.
- **Pressure Control:** During testing, the pressure range must be controlled within 400 units (e.g., kg/cm<sup>2</sup> or psi, depending on the gauge scale).
- **Monitor Pressure Gauge:** When operating the machine, continuously monitor the pressure value on the pressure gauge. Ensure the pressure does not exceed the yellow scale area on the gauge. Exceeding this limit can cause component deformation or failure.

- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses and gloves, when operating the machine.
- **Ventilation:** Ensure adequate ventilation in the work area, especially when using grouting materials that may emit fumes.
- **Power Supply:** Connect the machine to a grounded power outlet with the correct voltage and frequency (220V AC/50Hz).
- **Secure Connections:** Before operation, ensure all connections, including the high-pressure pipe and nozzle, are securely fastened to prevent leaks or disconnections under pressure.

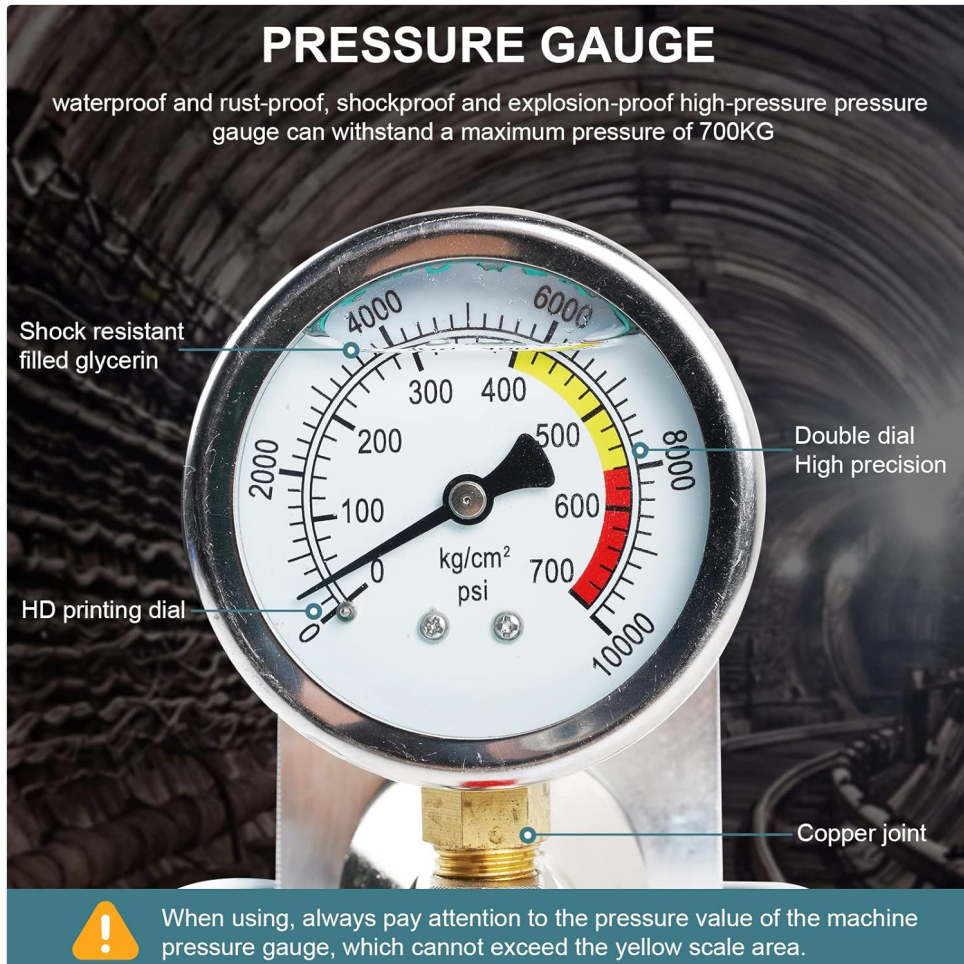


Figure 2.1: Detailed view of the pressure gauge, highlighting the shock-resistant glycerin filling, double dial for high precision, and the critical yellow and red warning zones for pressure monitoring. Do not exceed the yellow scale area.

### 3. PRODUCT OVERVIEW

#### 3.1 Components

The MXBAOHENG Grouting Injection Machine consists of several key components:

# PRODUCT INTRODUCTION



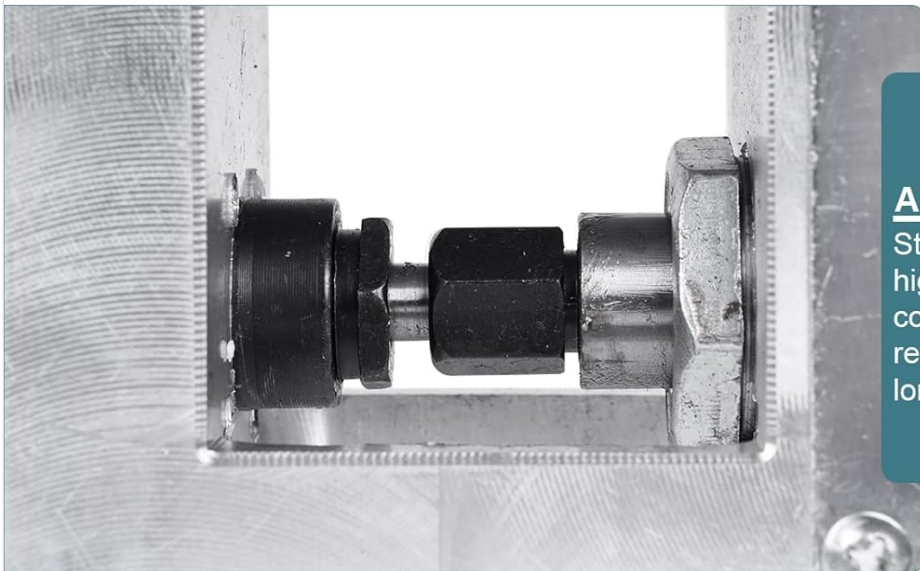
Figure 3.1: Labeled diagram of the grouting machine components, including the Carry handle, Drive machine, Material barrel, Pressure gauge, Three links, Pump, Switch valve, Nozzle, High pressure pipe, Clamp, and Gear box.

- **Carry Handle:** For easy transport and positioning of the machine.
- **Drive Machine:** The electric drill unit that powers the pump.
- **Material Barrel:** Container for the grouting material. Made of corrosion-resistant ABS plastic.
- **Pressure Gauge:** Displays the current operating pressure. Features a shock-resistant glycerin filling and a double dial for high precision.
- **Three Links:** Connects the pump to the high-pressure pipe.
- **Pump:** High-precision stainless steel alloy pump core, offering good sealing, corrosion resistance, and wear resistance.
- **Switch Valve:** Controls the flow of grouting material.
- **Nozzle:** Directs the grouting material into the injection point.
- **High Pressure Pipe:** Durable, explosion-proof pipe designed to withstand high pressures.
- **Clamp:** Secures the drive machine to the main unit.
- **Gear Box:** Transmits power from the drive machine to the pump.

## 3.2 Key Features

- **High-Quality Materials:** The machine features an ABS plastic barrel that is corrosion-resistant and durable. The pump core is made of stainless steel alloy, ensuring high precision, good sealing, and resistance to corrosion and wear for a long service life.
- **Powerful and Efficient:** Equipped with a high-performance, all-copper wire motor electric drill, providing strong power, fast heat dissipation, and low noise. It can achieve a working pressure of 0-50 MPa in seconds, with a maximum supported pressure of 700 kg.
- **Environmental Protection and Low Noise:** The design minimizes environmental pollution and operates with low noise levels. The electric drill's ventilation holes ensure rapid heat dissipation.
- **Effective Penetration:** Due to continuous high pressure, the grouting agent effectively penetrates concrete structures, filling micro-cracks, micropores, and capillaries.

## PRODUCT DETAILS



### ALLOY PUMP

Stainless steel alloy pump core, high precision, good sealing, corrosion resistance and wear resistance; strong and durable, long life and sustainable work

### HIGH POWER DRIVE ELECTRIC DRILL

The electric drill adopts all-copper wire motor, which has strong power, fast heat dissipation and low noise. The fixed seat tightly wraps the electric drill, making the operation safer and safer



Figure 3.2: Details of the high-pressure explosion-proof tube and the corrosion-resistant ABS plastic material barrel, highlighting their durability and robust design.

# HOW TO USE



1. Clean the base surface and find the leak point; drill holes about 45° along 2-8cm on both sides of the leak point crack



2. Insert the black rubber part of the water-stop needle into the drilled hole, and then use tools such as T-shaped wrench to lock and fix the needle.



3. Install the slurry, plug in the power supply to the machine, fasten the machine gun head and the water stop needle head, and then turn on the switch on the handle



4. Start the machine perfusion, always pay attention to the pressure value of the machine pressure gauge, and cannot exceed the yellow scale area;



5. Stop grouting until the grout overflows from the crack



6. Take out the needle after at least 48 hours, and then fill the base surface.

Figure 3.3: Close-up views of the stainless steel alloy pump core, known for its precision and sealing, and the high-power electric drill with an all-copper wire motor for reliable performance.

## 4. SETUP

Before initial use, it is essential to perform a machine test to ensure proper functionality and to familiarize yourself with the equipment. This test should always be conducted using oil or edible oil, never water or diluents.

### 4.1 Initial Machine Test

1. **Pour Oil:** Pour oil (edible oil is also suitable) into the material barrel.
2. **Check for Obstructions:** Verify that the high-pressure tube and the gun barrel are not obstructed.
3. **Turn Off Gun Head Switch:** Ensure the switch on the gun head is turned off.
4. **Observe Pressure Gauge and Start:** Observe the pressure gauge value. Press the start switch to begin the test.
5. **Check for Low Pressure Stop:** Confirm if the machine stops when the pressure is low (the manometer should stop around 500 kg/cm<sup>2</sup>).

6. **Release Pressure:** Open the gun head to release any remaining pressure.

## PRUEBA DE MÁQUINA



**1** Vierta el aceite (también aceite comestible) en el barril (pruebe estrictamente la máquina con agua)



**2** Pruebe si el tubo de alta presión y el cañón de la pistola no están obstruidos



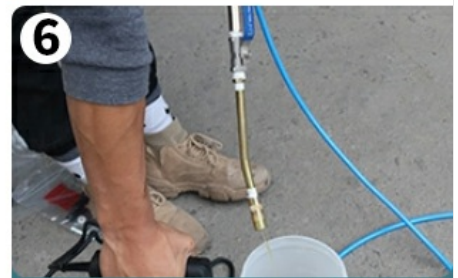
**3** Apague el interruptor de la cabeza de la pistola



**4** Observe el valor del manómetro y luego presione el interruptor de arranque.



**5** Compruebe si la máquina está bajo presión (el manómetro se detiene a unos 500 kg/cm<sup>2</sup>)



**6** Abra la cabeza de la pistola para liberar la presión.

Figure 4.1: Visual guide for performing the initial machine test, demonstrating the process of filling with oil, checking for obstructions, and monitoring pressure.

## 5. OPERATING INSTRUCTIONS

Follow these steps for effective grouting operation:

- 1. Prepare the Surface:** Clean the base surface thoroughly and identify the exact leak point. Drill holes at approximately 45-degree angles, 2-8 cm on both sides of the crack or leak point.
- 2. Insert Water-Stop Needle:** Insert the black rubber part of the water-stop needle into the drilled hole. Use tools such as a T-shaped wrench to lock and fix the needle securely in place.
- 3. Load Slurry and Connect Power:** Install the grouting slurry into the material barrel. Plug the machine into a suitable power supply. Fasten the machine gun head and the water-stop needle head together.
- 4. Start Perfusion and Monitor Pressure:** Turn on the switch located on the handle to begin the perfusion process. Continuously pay attention to the pressure value displayed on the machine's pressure gauge. It is critical that the pressure does not exceed the yellow scale area on the gauge.
- 5. Stop Grouting:** Continue grouting until the grout visibly overflows from the crack, indicating complete filling. Then, turn off the machine.
- 6. Remove Needle and Finish:** After at least 48 hours, carefully remove the water-stop needle. Finally, fill and finish the base surface to complete the repair.

# PRODUCT DETAILS



Figure 5.1: Step-by-step visual instructions for operating the grouting machine, from preparing the surface to finishing the repair.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your grouting machine.

- **Cleaning After Use:** After each use, thoroughly clean the material barrel, high-pressure pipe, and nozzle to prevent material hardening and blockages. Use appropriate cleaning agents recommended for your specific grouting material.
- **Pump Core Inspection:** Periodically inspect the stainless steel alloy pump core for any signs of wear or damage. Ensure it remains free of debris.
- **Seal Integrity:** Check all seals and connections for leaks. Replace any worn or damaged seals promptly to maintain pressure and prevent material leakage.
- **Motor Ventilation:** Keep the ventilation holes on the electric drill clean and unobstructed to ensure proper heat dissipation and prevent overheating.
- **Storage:** Store the machine in a clean, dry place, away from extreme temperatures and direct sunlight. Ensure all

components are dry before storage.

- **Lubrication:** Refer to the specific grouting material's guidelines for any lubrication requirements for the machine's moving parts, if applicable.

## 7. TROUBLESHOOTING

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This section addresses common issues you might encounter and their potential solutions.

Problem	Possible Cause	Solution
Machine not starting or no power.	Power cable disconnected; faulty power outlet; internal electrical issue.	Check power cable connection. Test outlet with another device. If problem persists, contact support.
Pump stuck or burned out.	Used water or prohibited diluents (ketone, xylene, etc.) for testing or cleaning.	<b>Do not use water or prohibited diluents.</b> Always use oil or edible oil for testing. If pump is damaged, it may require professional repair or replacement.
Pressure not building or too low.	Material barrel empty; pump or hose blockage; worn seals; air in the system.	Refill material barrel. Check for and clear any blockages. Inspect and replace worn seals. Bleed air from the system if applicable.
Pressure exceeds yellow scale area on gauge.	System blockage; incorrect material viscosity; machine malfunction.	Immediately stop operation. Check for blockages in the nozzle, pipe, or pump. Ensure grouting material viscosity is appropriate. If problem persists, contact support.
Grout not flowing or inconsistent flow.	Nozzle clogged; material too thick; air bubbles in material.	Clean the nozzle. Adjust material viscosity as per manufacturer's instructions. Ensure material is properly mixed and free of air bubbles.

## 8. SPECIFICATIONS

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Detailed technical specifications for the MXBAOHENG 910W High-Pressure Grouting Injection Machine.

# PRODUCT PARAMETERS



Rated power	910W	Restart pressure	7500psi
Voltage / frequency	220V AC/50Hz	High pressure pipe pressure	10000psi
Output pressure	18000psi	Safety range of on-off valve	18000psi

Figure 8.1: Diagram illustrating the product dimensions and key electrical and pressure parameters.

Parameter	Value
Model Number	9999
Rated Power	910W
Voltage / Frequency	220V AC / 50Hz
Output Pressure	18000 psi
Restart Pressure	7500 psi
High Pressure Pipe Pressure	10000 psi
Safety Range of On-Off Valve	18000 psi
Maximum Supported Pressure	700 kg

Parameter	Value
Package Dimensions	44.1 x 40 x 16.3 cm
Net Weight	6.4 kg
Country of Origin	China

## 9. WARRANTY AND SUPPORT

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For warranty information, technical support, or service inquiries, please contact the manufacturer or the seller directly.

- **Manufacturer:** MXBAOHENG
- **Seller:** MXBAOHENGES (as per Amazon listing)
- **Contact Information:** Please refer to your purchase documentation or the seller's information on the platform where the product was purchased for specific contact details.

No official product videos were available in the provided data for embedding in this manual.