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› W-9999 High-Pressure Grouting Machine Concrete polyurethane filling machine

## STARNY W-9999

# W-9999 High-Pressure Grouting Machine User Manual

Model: W-9999 | Brand: STARNY

## 1. PRODUCT OVERVIEW

The STARNY W-9999 High-Pressure Grouting Machine is a professional electric injection pump designed for high-pressure chemical grouting. It is engineered to work with single chemical grouting materials, providing efficient and reliable performance for various construction and repair applications.



Image: The STARNY W-9999 High-Pressure Grouting Machine, showing its main components including the motor, material cup, and pressure gauge.

Key features include:

- **Versatile Application:** Widely used in architecture, underground construction, water conservancy, environmental protection, civic engineering, subways, tunnels, culverts, and crack reinforcement.
- **Efficient Grouting:** Capable of plugging grouting, consolidation grouting, and crack reinforcement grouting.
- **High Pressure Output:** Can achieve high pressure for effective injection of chemical grouting materials into concrete cracks, facilitating rapid dispersion, emulsification, inflation, and consolidation of the slurry.
- **Portability:** Lightweight design ensures ease of transport and movement on job sites.
- **Low Maintenance:** Designed for straightforward maintenance without requiring specialized training, minimizing downtime.
- **Material Compatibility:** Suitable for water-soluble polyurethane plugging agent, oil-soluble polyurethane plugging agent, epoxy resin, acrylic resin, and other low viscosity liquid materials.

## 2. TECHNICAL SPECIFICATIONS

<b>Parameter</b>	<b>Value</b>
Model	W-9999
Power	910 W
Maximum Output Pressure	15000 PSI
Restart Pressure	7500 PSI
Safe Range of High-Pressure Hose	10000 PSI
Switch Valve Safety Range	15000 PSI
Weight	8 kg / 17.6 lb
Manufacturer	STARNY
Power Source	AC
Item Package Quantity	1
Included Components	Standard packaging

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### **3. SETUP AND INITIAL PREPARATION**

Before operating the W-9999 High-Pressure Grouting Machine, follow these steps for proper setup and initial preparation:

# Product Structure

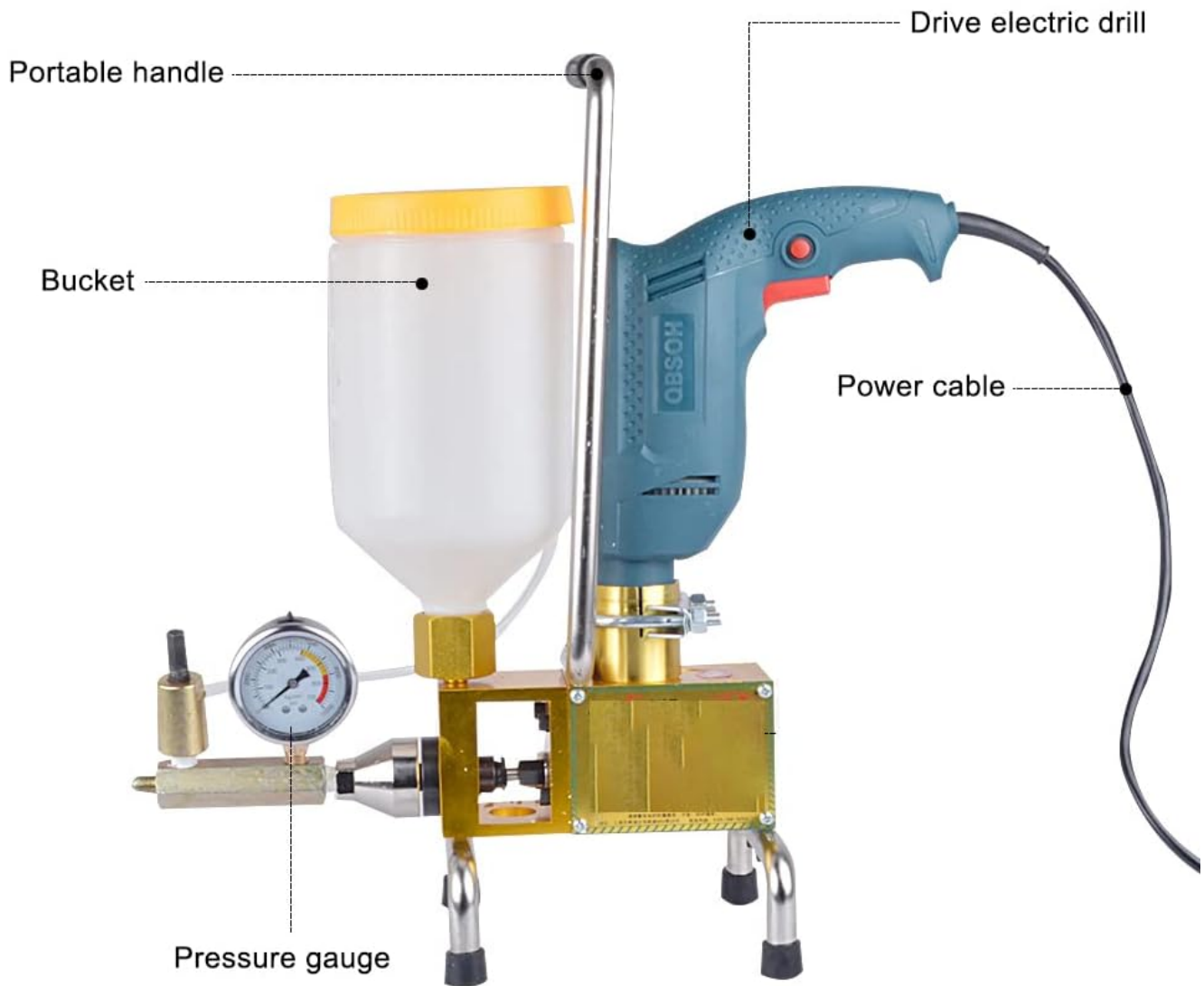


Image: Diagram illustrating the main components of the grouting machine, including the portable handle, bucket (material cup), drive electric drill, power cable, and pressure gauge.

1. **Inspect and Tighten Screws:** The machine may experience shaking during transportation. Before first use, ensure all screws are tightened securely.
2. **Lubricate the Pump:** The new injection pump must be lubricated before use. Apply lubricant to the body and accessories using a lubricant-saturated cloth.
3. **Pressure Test with Lubricating Oil:** It is mandatory to test the machine's pressure with lubricating oil (e.g., engine oil) before its first use. Do not use low-viscosity liquids like toluene, acetone, or water for this test, as the pressure gauge will not show pressure.
  - Pour lubricating oil into the material barrel.
  - Close the valve and point the gun outwards.
  - Turn on the electric drill.
  - Once the pressure gauge displays 300-400 kg/cm<sup>2</sup> (approximately 4267-5690 PSI), turn off the electric drill.
  - Open the valve and spray the lubricating oil back into the oil barrel. This confirms a successful pressure test.

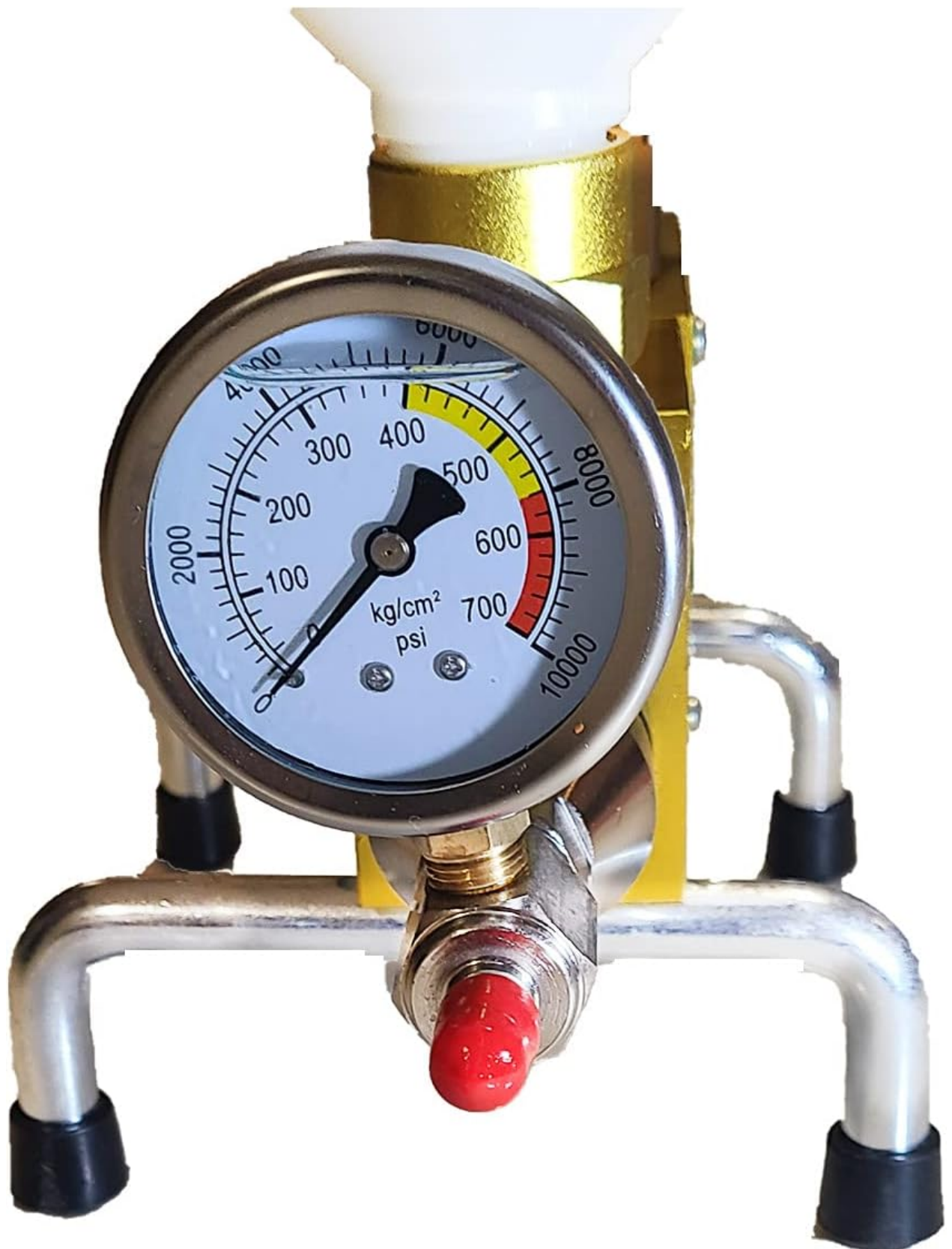


Image: A close-up view of the pressure gauge, indicating pressure readings in kg/cm<sup>2</sup> and PSI, essential for monitoring machine operation.

#### 4. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of the W-9999 High-Pressure Grouting Machine:

1. **Prepare Material:** Pour the chosen grouting material (e.g., polyurethane or epoxy) into the material cup and securely cover it with the lid.

2. **Purge Lubricant:** Turn the machine switch to the "open" position and direct the injector towards a dustbin or waste container. Turn on the power switch to expel any remaining lubricant from the hose until the grouting material begins to emerge. Once the material appears, turn off the power and then close the switch valve.
3. **Begin Grouting:** With the system primed, you can now proceed with your grouting application according to standard construction practices for high-pressure injection. The machine is designed for rapid construction, capable of reaching 7500 PSI working pressure in seconds.

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## 5. MAINTENANCE AND CLEANING

Proper cleaning and maintenance are crucial for extending the lifespan and ensuring the continued performance of your W-9999 High-Pressure Grouting Machine.



Image: The high-pressure hose, a critical component that requires regular cleaning and inspection.

1. **Immediate Post-Construction Cleaning:** Immediately after completing construction, clean the injection pump thoroughly using a suitable cleanser (such as acetone or xylene).
  2. **Cleaning Procedure:**
    - Pour the cleanser into the material cup.
    - Expel the cleanser from the hose into a dustbin.
    - Place the injector into the material cup.
    - Turn the switch valve on and off several times to create pressure within the hose. This action helps to thoroughly clean the internal components.
    - After 3 to 5 minutes, expel the cleanser from the pump into the dustbin.
  3. **Regular Inspection:** Periodically inspect all components, especially the high-pressure hose and connections, for any signs of wear or damage.
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## 6. TROUBLESHOOTING

This section provides guidance for common issues encountered during operation.

- **Pressure Gauge Not Showing Pressure:** If the pressure gauge does not show any pressure during operation, ensure that the machine is not running empty. The pressure test and operation require a viscous liquid (lubricating oil for test, grouting material for operation) to register pressure. Running the machine without material will not show pressure.
  - **Machine Shaking:** If the machine shakes excessively, re-check and tighten all screws as per the initial setup instructions.
  - **Material Not Dispensing:** Verify that the material cup contains sufficient material, the lid is properly secured, and the switch valve is open. Ensure the hose is not clogged.
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## 7. APPLICATIONS

The STARNY W-9999 High-Pressure Grouting Machine is suitable for a wide range of applications, including but not limited to:

- Leakage plugging and sealing of cracks, expansion joints, construction joints, and structural joints in various buildings and underground concrete projects.
  - Leakage stoppage and reinforcement of drilling wall protection in geological drilling engineering.
  - Grouting of reservoir dam bodies in water conservancy and hydropower projects, leakage stoppage and seepage prevention of cracks in water conveyance tunnels, and seepage prevention and reinforcement of concrete cracks in dam bodies.
  - Leakage and water stoppage in concrete cracks within subways, tunnels, culverts, and sewage treatment ponds.
  - Water leakage and stoppage in concrete cracks in basements, underground garages, and underground passages.
  - Water leakage and stoppage in roof concrete slab cracks, wall pipes, and corners.
  - High-pressure injection of epoxy resin for cracks in concrete structures, beams, columns, and plates.
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## 8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your STARNY W-9999 High-Pressure Grouting Machine, please refer to the documentation provided at the time of purchase or contact STARNY customer service directly. Keep your purchase receipt and model number readily available for faster assistance.

For additional information or to purchase replacement parts, visit the official STARNY website or authorized distributors. You can also refer to the product page on [Amazon.com](https://www.amazon.com) for more details.