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> PRO SOURCE Pneumatic Engraving Pen: 13,500 BPM, 90 psi, 1/4" NPT Inlet User Manual

## PRO SOURCE 5517512022PRO

# PRO SOURCE Pneumatic Engraving Pen User Manual

Model: 5517512022PRO

## 1. SAFETY INFORMATION

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Read and understand all safety warnings and instructions before operating this pneumatic engraving pen. Failure to follow the warnings and instructions may result in personal injury or property damage.

- **Personal Protective Equipment:** Always wear safety glasses or goggles, hearing protection, and gloves.
- **Work Area:** Keep the work area clean, well-lit, and free from obstructions. Do not operate in explosive environments.
- **Air Supply:** Ensure the air compressor provides clean, dry air at the recommended pressure (90 psi). Do not exceed maximum operating pressure.
- **Tool Handling:** Disconnect the air supply before making adjustments, changing accessories, or storing the tool. Do not force the tool; use it for its intended purpose.
- **Vibration:** Prolonged use can cause vibration-related injuries. Take breaks and consider anti-vibration gloves.

## 2. PRODUCT OVERVIEW

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The PRO SOURCE Pneumatic Engraving Pen is a precision air-powered tool designed for detailed engraving and mini-chipping on materials such as metals, stone, and marble. It features a high-precision throttle for fine control and a rear exhaust system.



Figure 2.1: The PRO SOURCE Pneumatic Engraving Pen, showing the pen body, attached air hose, and inline oiler.

## 2.1 Components

- **Engraving Pen Body:** The main housing for the pneumatic motor and engraving stylus.
- **High Precision Throttle:** Provides variable control over the tool's speed and impact force.
- **Rear Exhaust:** Directs exhaust air away from the work area.
- **Air Inlet (1/4" NPT):** Connection point for the compressed air supply.
- **Engraving Stylus:** The replaceable tip that performs the engraving.



Figure 2.2: Close-up view of the engraving pen, detailing the throttle control and the model number (5517512022PRO) inscribed on the body.

## 3. SETUP

Proper setup is crucial for safe and efficient operation.

### 1. Air Supply Preparation:

- Ensure your air compressor can deliver a consistent 90 psi (6.2 bar).
- Install an air filter/regulator/lubricator (FRL unit) in your air line. This unit filters moisture, regulates pressure, and provides necessary lubrication.
- Fill the lubricator with appropriate pneumatic tool oil.

### 2. Air Hose Connection:

- Connect a 1/4" NPT air hose to the tool's inlet. Verify all connections are tight and leak-free.
- For optimal airflow, use an air hose with an internal diameter of at least 3/8".

### 3. Pressure Adjustment:

- With the air supply connected but the tool idle, adjust your air regulator to achieve the

recommended operating pressure of 90 psi.

- Do not exceed 90 psi to prevent tool damage and maintain warranty validity.



Figure 3.1: The engraving pen with its coiled air hose attached, illustrating the connection point for the air supply.

## 4. OPERATION

Follow these instructions for effective use of your PRO SOURCE Pneumatic Engraving Pen.

1. **Secure Workpiece:** Always ensure the material to be engraved is firmly secured to prevent movement.
2. **Grip:** Hold the engraving pen comfortably, similar to a pencil, maintaining a firm grip.
3. **Start Engraving:** Gently depress the high-precision throttle. The tool will activate, and the stylus will begin its reciprocating action.
4. **Control:** The throttle allows for variable speed and impact force. Apply more pressure for a deeper or faster engraving.
5. **Technique:** Guide the stylus smoothly over the workpiece. Practice on scrap materials to achieve desired results and control.
6. **Exhaust:** Be mindful of the rear exhaust. Position yourself to avoid directing exhaust air towards your face or other sensitive areas.
7. **Stop:** Release the throttle to cease operation. Disconnect the air supply when the tool is not in use or unattended.

## 4.1 Recommended Applications

- Marking serial numbers or identification on metal components.
- Adding decorative details to stone or marble surfaces.
- Performing light chipping or deburring tasks.

## 5. MAINTENANCE

Consistent maintenance extends the life and ensures the performance of your engraving pen.

- **Lubrication:** If an inline lubricator is not used, apply a few drops of pneumatic tool oil into the air inlet before each use and after every hour of continuous operation.
- **Cleaning:** Keep the tool exterior clean. Regularly wipe down the pen body and clean the engraving stylus area to prevent material buildup.
- **Air Filter:** Periodically check and drain any accumulated moisture from your air filter/FRL unit.
- **Storage:** Store the tool in a clean, dry environment, disconnected from the air supply, and away from extreme temperatures.
- **Inspection:** Routinely inspect the air hose and connections for signs of wear, damage, or leaks. Replace any compromised components immediately.

## 6. TROUBLESHOOTING

Refer to this table for solutions to common operational issues.

Problem	Possible Cause	Solution
Tool does not operate or has low power.	<ul style="list-style-type: none"><li>• Insufficient air pressure.</li><li>• Air supply disconnected or kinked hose.</li><li>• Lack of lubrication.</li><li>• Internal blockage or wear.</li></ul>	<ul style="list-style-type: none"><li>• Check air regulator setting; ensure 90 psi.</li><li>• Verify air hose connection and check for obstructions.</li><li>• Add pneumatic tool oil.</li><li>• Contact customer support for service.</li></ul>
Excessive air leakage.	<ul style="list-style-type: none"><li>• Loose air fittings.</li><li>• Damaged O-rings or seals.</li></ul>	<ul style="list-style-type: none"><li>• Tighten all air connections.</li><li>• Inspect and replace damaged seals.</li></ul>
Engraving stylus not impacting effectively.	<ul style="list-style-type: none"><li>• Low air pressure.</li><li>• Worn stylus.</li><li>• Internal mechanism issues.</li></ul>	<ul style="list-style-type: none"><li>• Verify air pressure is at 90 psi.</li><li>• Replace stylus if worn.</li><li>• Contact customer support.</li></ul>

## 7. SPECIFICATIONS

<b>Model Number</b>	5517512022PRO
<b>Brand</b>	PRO SOURCE
<b>Power Source</b>	Pneumatic
<b>Maximum Blows Per Minute (BPM)</b>	13,500 BPM
<b>Recommended Operating Pressure</b>	90 psi (6.2 bar)

<b>Air Inlet Size</b>	1/4" NPT
<b>Recommended Uses</b>	Engraving metals, stone, and marble; mini-chipping
<b>Special Features</b>	High precision throttle, Rear exhaust
<b>Style</b>	Pencil

## 8. WARRANTY AND SUPPORT

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For warranty information, technical support, or to order replacement parts, please contact PRO SOURCE customer service. Refer to your purchase documentation for specific warranty terms and contact details.

**Manufacturer:** MSC Industrial

**Website:** [www.mscdirect.com](http://www.mscdirect.com) (This link is provided as a general reference for the manufacturer; actual support contact may vary.)