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## Truper PIPI-420

# Truper 11095 / PIPI-420 Multi-Position Cup Spray Gun Instruction Manual

**Model: PIPI-420**

**Brand: Truper**

### Introduction

This instruction manual provides detailed information for the safe and efficient operation, setup, and maintenance of your Truper 11095 / PIPI-420 Multi-Position Cup Spray Gun. Please read this manual thoroughly before using the product to ensure proper handling and to prevent damage or injury. Keep this manual for future reference.

### Product Overview

The Truper PIPI-420 is a gravity-feed spray gun designed for various painting applications, featuring a multi-position aluminum cup and adjustable controls for fluid, pattern, and air pressure. It operates within a work pressure range of 30 to 50 PSI and is equipped with a 1/16" (1.4 mm) nozzle.






Figure 1: Front view of the Truper PIPI-420 Multi-Position Cup Spray Gun, showcasing its ergonomic design and gravity-feed cup.

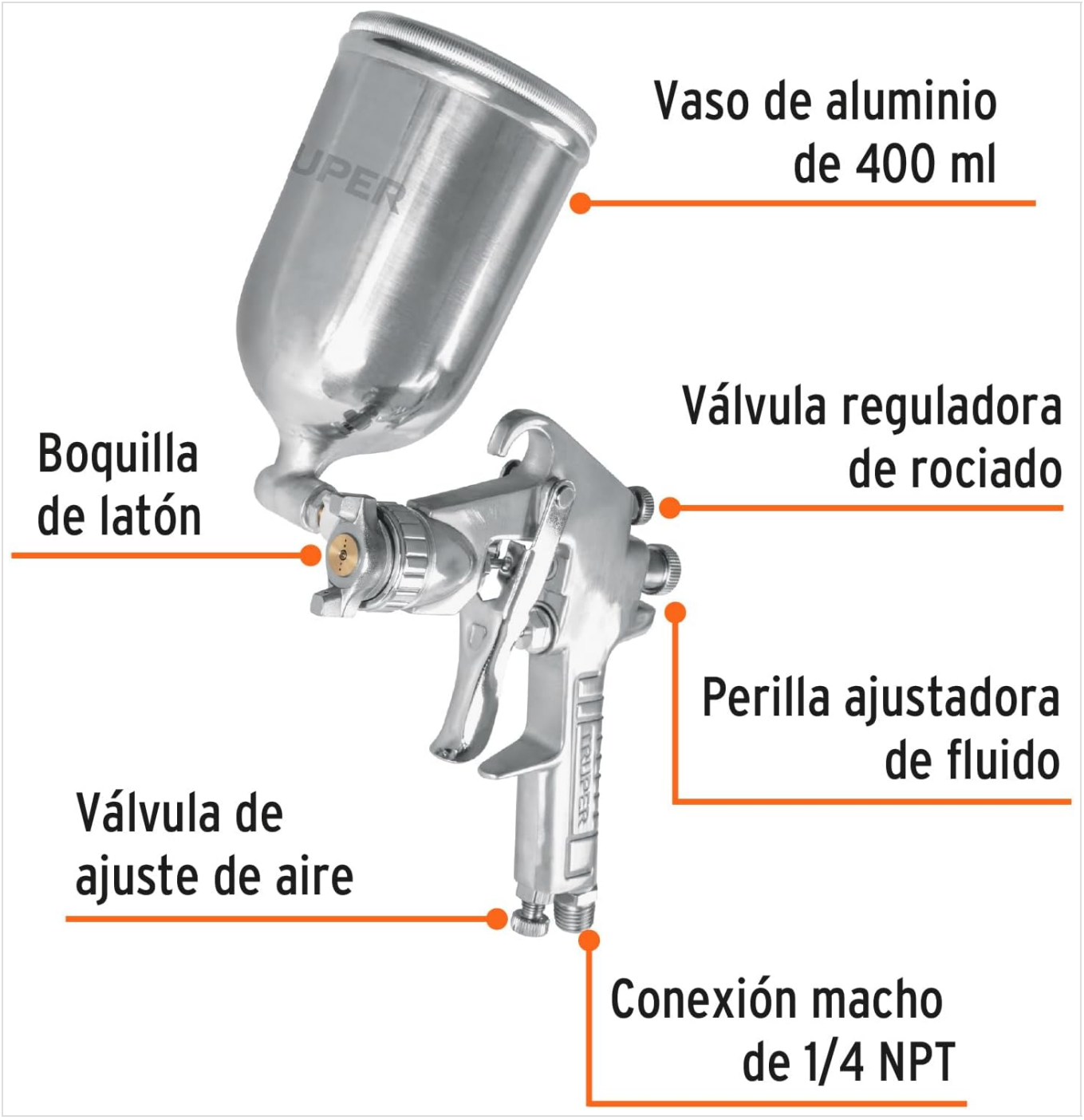


Figure 2: Detailed view of the spray gun highlighting key components: 400 ml Aluminum Cup, Spray Regulator Valve, Fluid Adjustment Knob, Air Adjustment Valve, and 1/4 NPT Male Connection.



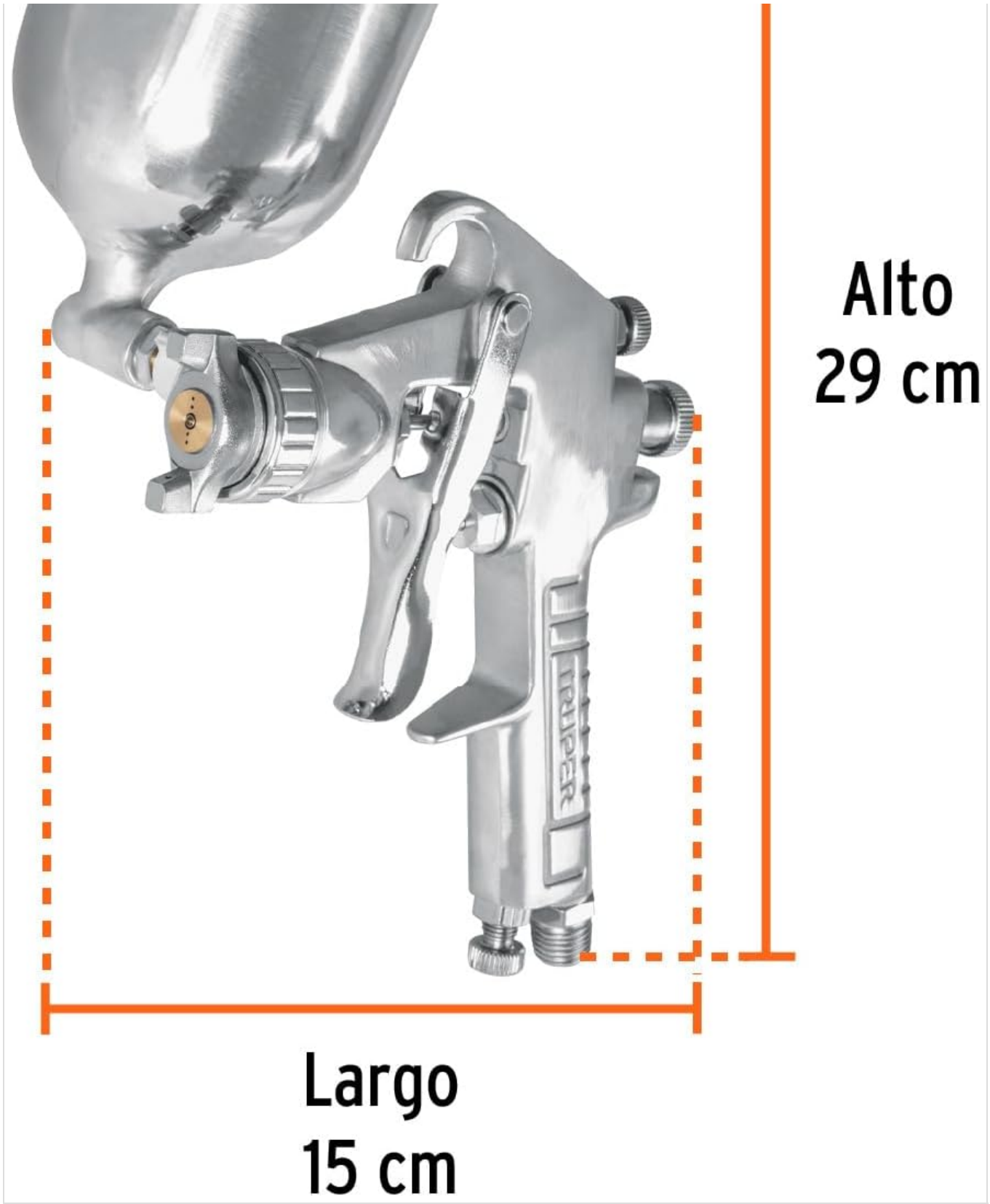


Figure 3: Dimensions of the Truper PIPI-420 Spray Gun. The gun measures approximately 29 cm in height and 15 cm in length.

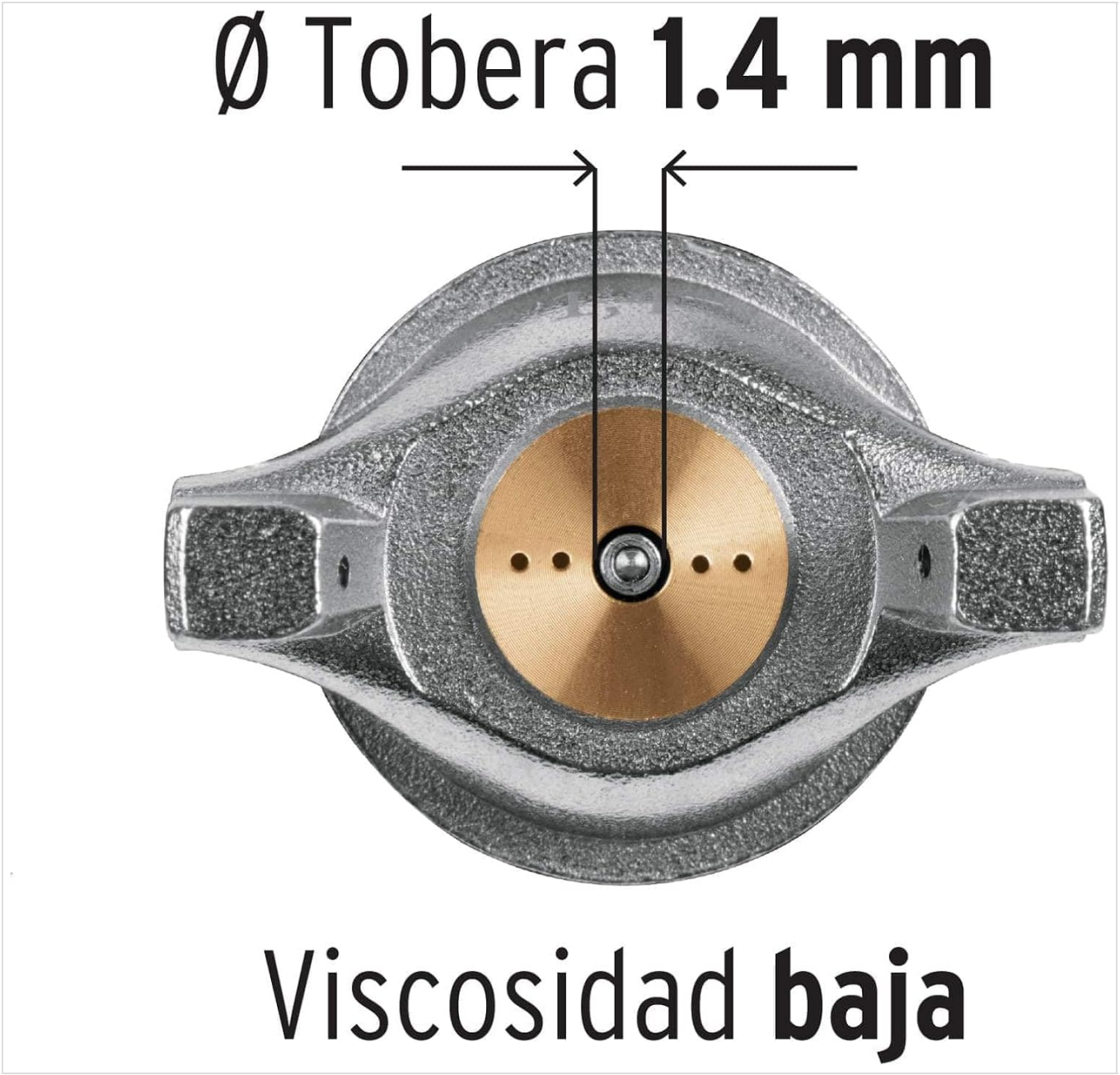


Figure 4: Close-up of the 1.4 mm nozzle, suitable for low viscosity materials.

# GUÍA DE PISTOLAS DE AIRE DE GRAVEDAD

## PERILLAS DE AJUSTE




## COMPARATIVA

LVMP vs HVLP

| TECNOLOGÍA<br>VOLUMEN DE AIRE REQUERIDO / PRESIÓN DE SALIDA | VELOCIDAD DE APLICACIÓN | CALIDAD DE ACABADO | ÍNDICE DE TRANSFERENCIA | NIVEL DE EXPERIENCIA DEL USUARIO | RECOMENDACIÓN DE USO CON NUESTROS COMPRESORES | |
|---|---|---|---|---|---|---|
| | | | | | HORIZONTALES | VERTICALES |
| **LVMP**<br>Bajo Volumen / Media Presión<br>(Low Volume / Medium Pressure) | ALTA | FINO | ALTO | MEDIO | COMP-20LP<br>COMP-40LP | COMP-25LT<br>COMP-50LT<br>COMP-50LV |
| **HVLP**<br>Alto Volumen / Baja Presión<br>(High Volume / Low Pressure) | MEDIA | EXTRAFINO | MUY ALTO | ALTO | COMP-60LB | COMP-120LH<br>COMP-120LV<br>COMP-80LV<br>COMP-240LV<br>COMP-180LV |

## SELECCIÓN DE BOQUILLA

DIÁMETRO / MATERIAL / VELOCIDAD




| DIÁMETRO DE BOQUILLA | VISCOSIDAD | | | | | | VELOCIDAD DE APLICACIÓN |
|---|---|---|---|---|---|---|---|
| | BAJA | | MEDIA | | ALTA | | (–) (+) |
| | COLORANTES | ESMALTES | LUBRICANTES | ACRÍLICOS | PRIMERS | EPÓXICOS | |
| 0.5 mm | ● | ● | | | | | |
| 1.0 mm | | ● | ● | | | | |
| 1.4 mm | | ● | ● | ● | ● | | |
| 1.7 mm | | | | ● | ● | | |
| 2.0 mm | | | | | | ● | |

Figure 5: Gravity Air Gun Guide illustrating adjustment knobs for fan pattern, material flow, and air pressure. Includes a comparison between LVMP (Low Volume Medium Pressure) and HVLP (High Volume Low Pressure) technologies, and a nozzle selection chart based on material viscosity and application speed.




Figure 6: The retail packaging for the Truper PIPI-420 Gravity Feed Spray Gun, highlighting key features like the 1.4 mm nozzle and suitability for low viscosity materials.

## Specifications

| Feature | Detail |
|---|---|
| Brand | Truper |
| Model Name | PIPI-420 |
| Work Pressure | 30 to 50 PSI |
| Nozzle Size | 1/16" (1.4 mm) |
| Cup Capacity | 13.5 oz (400 ml) |
| Cup Material | Multi-position aluminum |
| Adjustments | Fluid, pattern, air pressure controls |
| Item Weight | 0.72 Kilograms (1.58 pounds) |
| Product Dimensions | 15.75 x 13.78 x 15.75 inches |
| Power Source | Hand Powered (requires air compressor) |

| Feature | Detail |
| --- | --- |
| Recommended Uses | Painting |

## Setup

1. **Unpack:** Carefully remove all components from the packaging. Verify that all parts are present: spray gun, aluminum cup, and any included accessories.
2. **Inspect:** Before initial use, inspect the spray gun for any signs of damage during shipping. Ensure all connections are secure.
3. **Connect Air Hose:** Attach a 1/4 NPT air hose (not included) to the male connection at the bottom of the spray gun handle. Ensure a tight, leak-free connection.
4. **Prepare Material Cup:** Screw the aluminum cup securely onto the top of the spray gun.
5. **Fill Material Cup:** Fill the cup with the desired painting material. Ensure the material is properly thinned according to the paint manufacturer's recommendations for spray gun application. Do not overfill.
6. **Connect to Air Compressor:** Connect the other end of the air hose to your air compressor. Set the compressor's regulator to the recommended operating pressure of 30-50 PSI.

## Operating Instructions

1. **Adjust Air Pressure:** Use the air adjustment valve on the gun or your compressor's regulator to set the desired air pressure within the 30-50 PSI range. Start with a lower pressure and increase as needed.
2. **Adjust Fluid Flow:** The fluid adjustment knob controls the amount of material released. Turn clockwise to decrease flow, counter-clockwise to increase.
3. **Adjust Pattern:** The spray regulator valve (air cap) allows adjustment of the spray pattern from a round spot to a wide fan. Rotate the air cap to change the orientation of the fan pattern (horizontal or vertical).
4. **Test Spray:** Before applying to your workpiece, always perform a test spray on a scrap piece of material to check the pattern, fluid flow, and atomization. Adjust settings until the desired finish is achieved.
5. **Spraying Technique:**
    - Hold the gun perpendicular to the surface, maintaining a consistent distance (typically 6-8 inches).
    - Move the gun at a steady, even pace across the surface.
    - Overlap each pass by approximately 50% to ensure even coverage.
    - Release the trigger at the end of each pass to avoid excessive material buildup.
6. **Multiple Coats:** If multiple coats are required, allow adequate drying time between coats as recommended by the paint manufacturer.

## Maintenance

Proper cleaning and maintenance are crucial for the longevity and performance of your spray gun.

1. **Immediate Cleaning:** Clean the spray gun immediately after each use. Do not allow paint to dry inside the gun.
2. **Empty Cup:** Empty any remaining material from the cup.
3. **Flush with Solvent:** Fill the cup with an appropriate cleaning solvent (e.g., paint thinner for oil-based paints, water for water-based paints). Spray the solvent through the gun until it runs clear.
4. **Disassemble and Clean:**
    - Remove the air cap, fluid nozzle, and fluid needle.

- Clean these components thoroughly with a brush and cleaning solvent. Pay special attention to the small holes in the air cap and nozzle.
- Do not use metal objects to clean the nozzle or air cap, as this can damage them.

5. **Clean Gun Body:** Wipe down the exterior of the gun body with a solvent-dampened cloth.
6. **Lubrication:** Periodically apply a small amount of spray gun lubricant to the fluid needle packing and air valve stem.
7. **Storage:** Store the clean and dry spray gun in a safe, dry place, away from extreme temperatures and direct sunlight.

## Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| Pulsating spray / Inconsistent flow | Low material in cup, clogged air vent, loose fluid nozzle, insufficient air pressure. | Refill cup, clean air vent, tighten nozzle, increase air pressure. |
| No spray / Low output | Clogged nozzle/air cap, fluid needle stuck, no air supply, material too thick. | Clean nozzle/air cap, check fluid needle movement, verify air connection, thin material. |
| Uneven spray pattern | Dirty or damaged air cap, incorrect air pressure, material too thick/thin. | Clean/replace air cap, adjust air pressure, adjust material viscosity. |
| Excessive overspray | Too high air pressure, gun too far from surface, material too thin. | Reduce air pressure, move gun closer, thicken material. |
| Paint runs or sags | Too much material, gun too close, material too thin, slow gun movement. | Reduce fluid flow, move gun further, thicken material, increase gun speed. |

## Important Safety Information

**WARNING:**

Always wear protective clothing, gloves, and eye/face protection when using this spray gun. Do not use with flammable or corrosive liquids. Keep away from children and pets. Do not exceed the recommended pressure setting. Regularly inspect for leaks and damage before and after each use.

Ensure adequate ventilation when spraying. Avoid inhaling paint fumes. Use a respirator if necessary. Always disconnect the air supply before cleaning, adjusting, or performing maintenance on the spray gun.

## Warranty and Support

Truper products are manufactured to high-quality standards. For information regarding warranty coverage, please refer to the warranty card included with your purchase or visit the official Truper website. For technical support, replacement parts, or service inquiries, please contact Truper customer service directly.

**Note:** Protection plans may be available for purchase separately through retailers. These plans are not directly provided by Truper and their terms and conditions should be reviewed with the respective provider.


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