

DRAPER

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Original Instructions
Version 2
June 2025

500ML GRAVITY FEED **AIR SPRAY GUN**

92971

SUITABLE FOR USE
WITH OIL PAINTS ONLY



**UK
CA** **CE**

Product Reference

User Manual for: 500ml Gravity Feed Air Spray Gun

Stock No: 92971

Part No: GSG5-500ML

Revisions

Version 1: July 2019
First release

Version 2: June 2025

Please visit drapertools.com/manuals for the latest version of this manual and the associated parts list, if applicable.

Understanding the Safety Content of This Manual

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WARNING! – Situations or actions that may result in personal injury or death.
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CAUTION! – Situations or actions that may result in damage to the product or surroundings.

Important: – Information or instructions of particular importance.

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1. Intended Use

This product is a gravity-fed spray paint gun for use with compressed air systems and is suitable for use with oil paints only.

Any other application beyond the conditions established for use will be considered misuse. Draper Tools accepts no responsibility for improper use of this product.

Read this manual in full before using this product and retain it for future use.

2. Specification

Stock No.	92971
Part No.	GSG5-500ML
Nozzle Size	1.5mm
Cup Capacity	500ml
Operating Air Pressure	45 – 50psi (3 – 3.5bar)
Maximum Air Pressure	60psi (4.1bar)
Average Air Consumption	175L/min (6cfm)
Air Inlet	¼" BSP
Fluid Delivery Rate	160 – 270ml/min
Net Weight	330g

3. Health and Safety Information

Important: Read all the Health and Safety instructions before attempting to operate, maintain or repair this product. Failure to follow these instructions may result in injury or damage to the user or the product.

3.1 General Health and Safety Precautions

- Only authorised personnel who have carefully read and understood this manual may operate, adjust and repair this product.
- Observe all standard safety precautions and good practices when working with air tools.
- Always wear adequate eye protection and a face mask when using this product.
- Some products suitable for use with this product may contain chemicals or toxic components.

- Avoid inhalation or contact with materials used with this product.
- If contact occurs, seek medical advice as soon as possible.
- Wear ear defenders and protective gloves while using this product.
- Keep your work environment clear and well-lit, with bystanders at a safe distance.
- Use this product **ONLY** in well-ventilated areas to avoid the build-up of fumes and allow paint particles to disperse.
- Keep out of reach of children.
- Before every use, inspect the tools for missing, broken, loose or corroded parts.
- **Important: DO NOT** use this product if it is damaged in any way. Contact Draper Tools to discuss repair and replacement options.
- Ensure that all accessories and attachments are securely tightened before use.
- Use the product only in the manner instructed in this manual.
- **DO NOT** modify this product in any way.
- **ONLY** use spare parts supplied by Draper Tools.
- Stay alert at all times; **DO NOT** use this product while tired or under the influence of alcohol, drugs or other medication.

3.2 Additional Safety Instructions for Air Tools

- Compressed air can cause severe injury.
 - **ALWAYS** turn off and disconnect the air supply before making any adjustments to the product or leaving it unattended.
 - **NEVER** direct this product towards yourself or others.
 - Ensure that compressed air is not blocked by or in contact with any part of your body.
- **ONLY** use clean, dry and regulated compressed air.



WARNING! NEVER use oxygen, combustible gases or other bottled gases as a supply for this product. Use of these substances may cause the product to explode.

- Draper Tools recommends the use of a whip hose between the tool and the air supply to reduce vibration.



CAUTION! Whipping hoses can cause severe injury. Always check for and replace damaged or loose hoses and fittings.

- Ensure that the product is compatible with the air supply before use.
- Ensure all connections are securely tightened.
- **DO NOT** exceed the maximum stated air pressure.
 - The pressure of the connected air supply **MUST NOT** exceed more than 10% of the rated pressure of the product.
- **DO NOT** obstruct the ability of the trigger to release once depressed.
- **NEVER** carry the tool by the air line.
- Some parts of the spray gun may become hot during use.
- Allow the nozzle and paint cup to cool after use before handling or adjusting them.
- **NEVER** spray flammable substances near open flames or sources of heat and ignition.
- **DO NOT** smoke in the vicinity of this product.
- **DO NOT** use this tool in temperatures that do not fall within 0–40°C

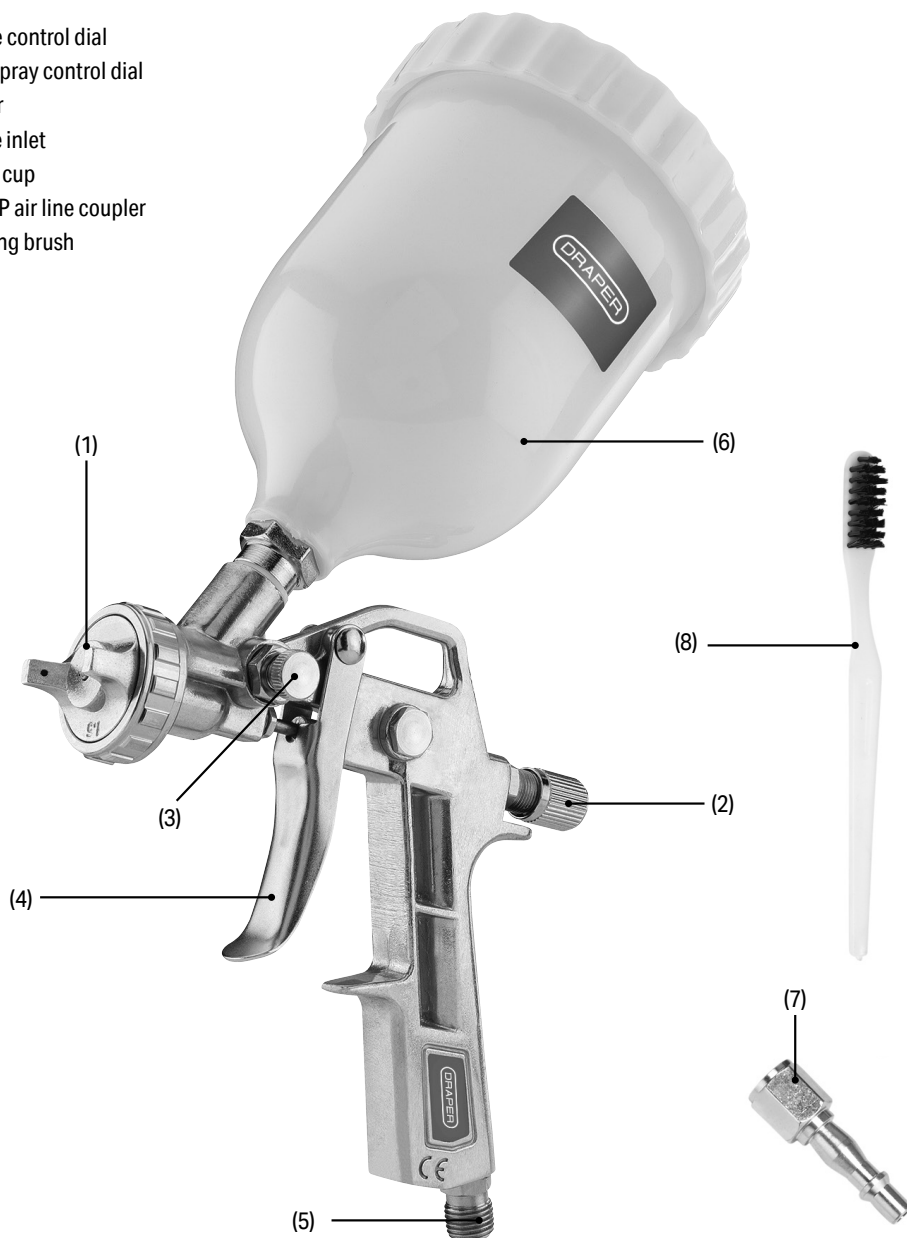


WARNING! The use of solvents that contain halogenated hydrocarbons in pressurised systems with aluminium or galvanised parts may cause chemical reactions that result in an explosion. This product contains components that will be affected by the presence of halogenated hydrocarbons.

- **DO NOT** use halogenated hydrocarbons with this product. Many halogenated hydrocarbons can be identified by the presence of reductions of fluorine (e.g. fluoro-), bromine (e.g. bromo-), chlorine (e.g. chloro-) or iodine (e.g. iodo-).

4. Identification

1. Nozzle
2. Needle control dial
3. Paint spray control dial
4. Trigger
5. Air line inlet
6. 500ml cup
7. 1/4" BSP air line coupler
8. Cleaning brush



Please visit **drapertools.com** for our full range of accessories and consumables.

5.1 Preparing the air supply for Use.

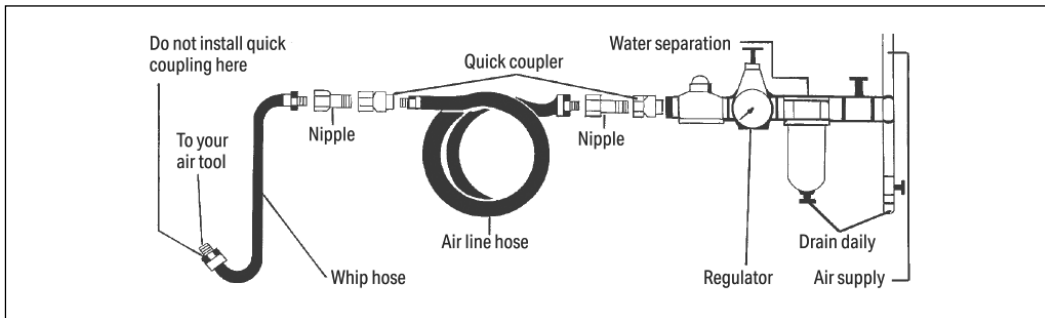


Fig. 1

- This air tool operates at a max. pressure of 4bar (60psi).
- The compressed air system must be controlled by a combination pressure regulator and moisture filter; this will ensure a constant supply of dry air at all times, provided it is properly maintained.
- Important: Always check the machine operating pressure before use.
- Water in the compressor tank may cause considerable corrosion to air tools; the compressor should be drained daily to avoid excessive water in the air supply. Dirty or wet air can significantly shorten the lifespan of the product.
- When using an air tool with a hose over 25ft long, Draper Tools recommends increasing the bore of the hose to the next largest available size (i.e. increase 3/8" to 1/2"). This will ensure adequate pressure and volume of air to power the tool.



CAUTION! DO NOT lubricate the air line when using paint spray guns. Ensure that any oil device has been removed and any residual oil is purged from the system before connecting the spray gun.

6. Preparation Instructions

6.1 Cleaning the Spray Gun before first use

Before first use, the spray gun must be cleaned thoroughly to remove any oil, grease, and the protective film applied before shipment.

1. Disassemble the spray gun and immerse all parts and accessories in spray gun cleaning fluid.

2. Soak the parts for a few minutes.
3. Allow the parts to dry and then wipe them clean with a damp cloth.
4. Reassemble the spray gun and half-fill the paint cup (6) with thinners.

Important: DO NOT connect the spray gun to the regulator or air line at this time.

5. Squeeze the trigger (4) to flush the thinners through the spray gun until the paint cup is empty.
6. Immerse and soak the assembled spray gun in the cleaning fluid for a few more minutes.
7. Allow the parts to dry, then wipe them clean.

6.2 Assembly, Filling and Connection to the air supply.

Important: It is recommended to use a 1/4" BSP thread whip hose to connect the spray gun to an air line to reduce vibrations.

1. Attach the paint cup (6) to the threaded socket at the top of the spray gun.
2. Rotate the needle control (2) clockwise as far as possible to close the fluid valve.
3. Wrap a length of PTFE tape around the spray gun air inlet (5).
4. Screw the 1/4" air line coupler (7) onto the spray gun air inlet and connect the air line.
5. Fill the paint cup with the required quantity of paint.

Important: ALWAYS ensure that the paint is mixed and thinned to the manufacturer's recommendations.

6. Pressurise the air line when you are ready to begin.

7. Operation Instructions

Important: Before using this product, read and understand all the safety instructions listed in this manual. **DO NOT** make any adjustments to the spray gun while the trigger is depressed.

1.1 Needle Control Dial (2)

- The needle control dial (2) adjusts the amount of paint that is released into the air flow and the density of the spray when the trigger is fully depressed.
- The paint quantity should be increased when the spray gun is positioned further from the surface or when the paint mixture has a higher viscosity.
- The paint quantity should be decreased when the spray gun is positioned closer to the surface or when the paint mixture has a lower viscosity.

1.2 Paint Spray Control dial (3)

The paint spray control dial (3) adjusts the shape of the paint jet released from the nozzle. The spray control dial can be rotated between a fuller flatter pattern to a narrower rounder pattern.

1.3 Nozzle (1) Orientation

- The nozzle can be rotated to change the orientation of the jet.
- Ensure the nozzle collar is tighten securely after adjustment.

1.4 Trigger (4) Operation

- Paint is released from the spray gun by squeezing the trigger (4):
 1. First, squeeze the trigger until resistance is met; this opens the air valve.
 2. Squeeze the trigger the rest of the way to draw the fluid pin back and release paint from the nozzle. **Important:** Test the spray output on an area of scrap material before working on the actual surface. Adjust the control dials to produce an even flow in the desired pattern. **ALWAYS** release the trigger before making any adjustment to the spray gun.

1.5 Notes on Use

- Keep the spray gun 6–8" away from the surface during operation.
- Start moving the spray gun **BEFORE** squeezing the trigger to prevent a build-up of paint at the starting point.
- Move the spray gun with a smooth motion and always keep at a constant distance from the surface
- **DO NOT** rock or pivot the spray gun as this will deliver uneven coverage of the surface.
- **DO NOT** hold the spray gun in a static position while the trigger is depressed as this will deliver uneven coverage.
- Slightly overlap the movements of the spray gun to ensure an even distribution at the edges of each stroke.
- Use a piece of scrap material at the edges of the area to prevent overspray and protect other surfaces.

8. Maintenance, Storage and Disposal

All maintenance should be carried out **ONLY** by authorised and suitably qualified personnel.



WARNING! ALWAYS ensure that the tools are disconnected from the air supply and that the air supply is switched off before attempting to adjust or maintain this product.

8.1 General Maintenance

- Keep the spray gun clean and dry when not in use.
- Protect the product from adverse weather conditions, both when in use and when stored.



CAUTION! NEVER lubricate the spray gun or its accessories with oil, grease or any silicone-based product.

- Store the tool in a clean and dry location, out of the reach of children.

8.2 Cleaning the Spray Gun

Important:

- Use the brush (8) supplied and ensure it is clean before using on any part of the spray gun.
- **DO NOT** use sharp objects to clean any openings on the spray gun as this may damage the internal parts.



CAUTION! DO NOT soak parts in solvents or cleaning fluids for too long as prolonged exposure may cause damage to the seals and other components.

1. Use compressed air to clean inside the air line inlet.
 2. Clean the paint cup and fluid chamber:
 - Remove the paint cup (6) lid and pour any remaining fluid into a suitable container.
 - Half-fill the paint cup with an appropriate thinner and then replace the lid.
 - Squeeze the trigger and spray all the liquid through the tool.
- Important: ALWAYS** spray the cleaning fluid safely into a suitable container.
- Repeat this process if the cleaning fluid is not completely clean when discharged.
 - Wipe the paint cup clean.
3. Unscrew the nozzle (1) and clean using the brush supplied (8).
 - Soak the parts in solvent to clear clogged holes or opening, then rinse clean.
 4. Clean the fluid needle and chamber.
 - Unscrew the control dial (2) and pull out the needle.
 - Soak the parts in solvent and rinse clean.
 5. Soak the spray gun body in the solvent, then rinse it clean and brush it with the brush.
 6. Reassemble the spray gun.

9. Disposal

Important: For safety, **ALWAYS** drain and clean the product of any oil, fuel, chemicals or other substances before returning it to Draper Tools or its authorised agent. Store these materials in suitable containers and dispose of them in accordance with local regulations. Draper Tools and its agents cannot be responsible for the disposal of these substances.

At the end of its working life, dispose of the product responsibly and in line with local regulations. Recycle where possible.

Dispose of paint and used thinner separately and in accordance with local regulations; **DO NOT** abandon it in the environment.



10. Warranty

6 months from date of purchase

Visit drapertools.com/warranty for full details.

11. Symbols



Read the instruction manual



Warning!



Do not abandon in the environment



Wear suitable eye protection and breathing apparatus



Wear ear defenders



Wear protective gloves



Keep out of the reach of children



European conformity



UK Conformity Assessed

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