

## Fengda FE-130

# Fengda FE-130 Airbrush Instruction Manual

Model: FE-130 | Brand: Fengda

## 1. PRODUCT OVERVIEW

The Fengda FE-130 (also referred to as BD-130 in some documentation) is a double-action airbrush designed for precise painting applications. It features a 0.3mm nozzle and needle, a fixed 7ml paint cup, and a G1/8 air connection. This airbrush is known for its accurate handling and durability, making it suitable for various artistic and hobby projects.

### Key Features:

- Double-action trigger for independent control of air and paint flow.
- 0.3 mm steel nozzle and stainless steel needle for fine detail work.
- Integrated 7 ml paint cup with lid.
- Teflon packing for chemical resistance and longevity.
- Adjustable needle stop for consistent line width.
- Operating pressure range: 1-3.5 bar (15-50 PSI).



Image 1.1: The Fengda FE-130 double-action airbrush. This image shows the main body of the airbrush, including the integrated paint cup, trigger, and nozzle assembly.

## 2. INCLUDED COMPONENTS

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The Fengda FE-130 Airbrush package typically includes the following items:

- 1 x Fengda FE-130 Airbrush (spray gun)
- 1 x Plastic Storage Case
- 1 x Nozzle Assembly Wrench
- 1 x 7ml Paint Cup with Lid (integrated)
- 1 x Plastic Pipette
- 1 x Instruction Manual
- 1 x Fengda BD24 Air Hose (1.80 m with 1/8" - 1/8" connections)



Image 2.1: The Fengda FE-130 airbrush and its protective plastic case, showing the airbrush stored inside.



Image 2.2: The 1.8-meter Fengda BD24 fabric air hose with 1/8-inch connections, included for connecting the airbrush to a compressor.

### 3. SETUP

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1. **Unpack Components:** Carefully remove all items from the plastic case.
2. **Connect Air Hose:**
  - Attach one end of the 1.8m BD24 air hose to the air inlet port at the bottom of the airbrush handle. Ensure it is securely tightened to prevent air leaks.
  - Attach the other end of the air hose to your air compressor's G1/8 output port.
3. **Prepare Compressor:** Ensure your air compressor is set to the recommended operating pressure of 1-3.5 bar (15-50 PSI). Refer to your compressor's manual for specific instructions.
4. **Test Air Flow:** Before adding paint, connect the airbrush to the compressor and turn on the air. Press the trigger down to release air. This confirms the air connection is secure and functional.

### 4. OPERATING INSTRUCTIONS

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The Fengda FE-130 is a double-action airbrush, meaning the trigger controls both air and paint flow independently. This allows for greater control over your spray pattern.

1. **Prepare Paint:** Thin your paint to the consistency of milk. Use appropriate thinners for your specific paint type (e.g., water for acrylics, lacquer thinner for lacquers). Proper thinning is crucial for smooth operation and preventing clogs.
2. **Load Paint:** Pour the thinned paint into the 7ml integrated paint cup. Do not overfill.

3. **Adjust Needle Stop (Optional):** The knurled screw at the rear of the airbrush handle can be used to limit the backward travel of the needle, thus limiting the maximum paint flow. This is useful for consistent line widths.
4. **Start Air Flow:** Press the trigger straight down to release air from the nozzle.
5. **Control Paint Flow:** While holding the trigger down for air, pull the trigger backward to release paint.
  - Pushing the trigger further back increases paint flow.
  - Releasing the trigger forward reduces paint flow.
6. **Practice:** Practice on scrap material to get a feel for the airbrush's response to trigger movements and to achieve desired spray patterns.
7. **Finish Spraying:** When finished, release the trigger forward completely to stop paint flow, then release the trigger upwards to stop air flow.

## 5. MAINTENANCE

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Proper cleaning and maintenance are essential for the longevity and optimal performance of your airbrush. Clean your airbrush immediately after each use, especially when changing colors or finishing a session.

### 1. Initial Flush:

- Empty any remaining paint from the cup.
- Add a small amount of appropriate cleaner (e.g., water for acrylics, solvent for enamels/lacquers) to the paint cup.
- Spray the cleaner through the airbrush until it runs clear. You can also "back-flush" by covering the nozzle with your finger and pressing the trigger for air, allowing air bubbles to clean the cup.

### 2. Disassembly (for thorough cleaning):

- Unscrew the handle at the rear of the airbrush.
- Carefully pull out the needle from the rear. Clean the needle with a soft cloth and cleaner. Be extremely careful not to bend the tip.
- Unscrew the nozzle cap and then the nozzle itself. Use the provided nozzle wrench if necessary. Clean the nozzle thoroughly with a small brush and cleaner.
- Clean the paint cup and airbrush body with brushes and cleaner.

### 3. Reassembly:

- Carefully reinsert the clean nozzle and tighten it gently. Do not overtighten.
- Replace the nozzle cap.
- Carefully reinsert the needle from the rear, pushing it forward until it seats correctly in the nozzle.
- Replace the handle.

4. **Lubrication (Optional):** Apply a tiny drop of airbrush-specific lubricant to the needle and trigger mechanism periodically to ensure smooth operation. Do not use petroleum-based lubricants.

**Caution: Always handle the needle and nozzle with extreme care as they are delicate and easily damaged.**

## 6. TROUBLESHOOTING

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Problem	Possible Cause	Solution
No paint flow	Clogged nozzle/needle, paint too thick, bent needle tip, air cap loose.	Clean nozzle/needle, thin paint, check needle for damage, tighten air cap.
Splattering/Uneven spray	Paint too thick, dirty nozzle/needle, low air pressure, damaged nozzle.	Thin paint, clean airbrush thoroughly, increase air pressure, inspect/replace nozzle.
Air bubbles in paint cup	Loose nozzle, damaged nozzle, bent needle.	Tighten nozzle, inspect/replace nozzle, check needle for bends.
Air leaks	Loose connections (hose, air cap), damaged O-rings/packings.	Tighten all connections, inspect and replace damaged O-rings/packings.

## 7. SPECIFICATIONS

Feature	Detail
Model	FE-130 (BD-130)
Brand	Fengda
Nozzle Diameter	0.3 mm
Needle Material	Stainless Steel
Paint Cup Capacity	7 ml (integrated)
Action Type	Double-Action
Operating Pressure	1 - 3.5 bar (15 - 50 PSI)
Air Connection	G1/8
Hose Length	1.8 meters (BD24 hose)
Hose Connections	1/8 inch - 1/8 inch
Material	Alloy Steel
Color	Silver
Recommended Use	Painting

## 8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact Fengda customer service directly. Keep your proof of purchase for any warranty claims.

Regular maintenance as described in this manual will help ensure the long-term performance of your airbrush.

