

Consfly FBM-YJ-004

Consfly Handheld Pneumatic Tapping Machine User Manual

Model: FBM-YJ-004

INTRODUCTION

This user manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Consfly Handheld Pneumatic Tapping Machine, Model FBM-YJ-004. Please read this manual thoroughly before using the machine to ensure proper function and to prevent injury or damage.

SAFETY INSTRUCTIONS

Always observe the following safety precautions to reduce the risk of injury or damage to the machine:

- Ensure the machine is connected to a stable air supply within the specified pressure range (5-8kg).
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves, during operation.
- Do not operate the machine if it is damaged or malfunctioning.
- Keep hands and loose clothing away from moving parts.
- Always disconnect the air supply before performing any maintenance, adjustments, or changing accessories.
- Use the machine only for its intended purpose: tapping and threading.
- Ensure the workpiece is securely clamped before tapping.
- Do not exceed the maximum tapping capacities for different materials (Aluminum: M3~M14, Iron: M3-M12, Steel: M3~M10).
- Operate in a well-ventilated area.

PRODUCT OVERVIEW

Components



Figure 1: The Consfly Handheld Pneumatic Tapping Machine with its accompanying chuck. This image shows the main body of the tool and the separate chuck component.

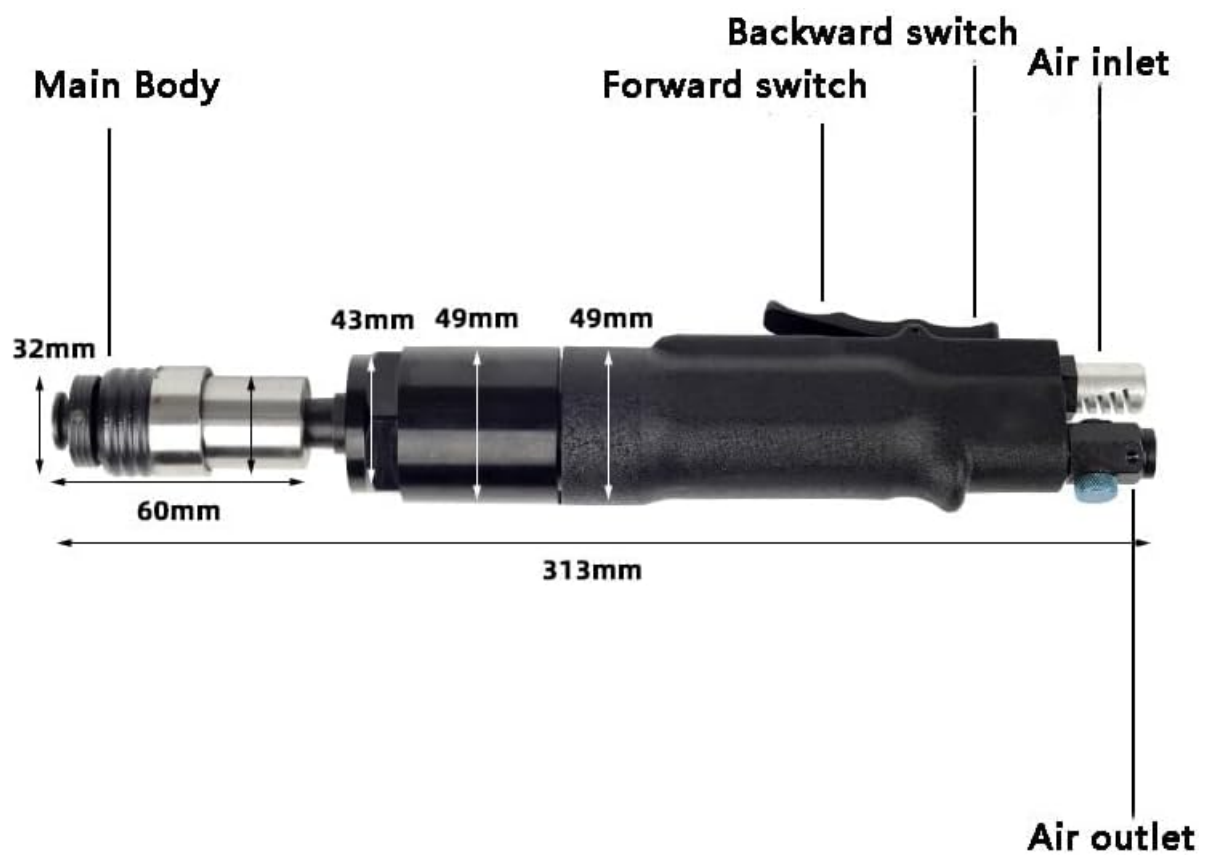


Figure 2: Detailed diagram of the tapping machine, highlighting key components such as the Main Body, Forward Switch, Backward Switch, Air Inlet, and Air Outlet, along with overall dimensions (313mm length) and specific section measurements.



Figure 3: An internal view of the pneumatic tapping machine, showing the intricate mechanical components and gears within the housing, illustrating its robust construction.

High performance precision gears

Made of selected steel, sturdy and durable



Figure 4: Close-up view of the high-performance precision gears, indicating they are made of selected steel for sturdiness and durability, crucial for the machine's long service life.

Features

- **Adjustable Speed and Strength:** Allows for precise control during tapping operations.
- **Forward and Reverse Switch:** Enables easy switching between tapping and retracting the tap, enhancing safety and work efficiency.
- **Durable Construction:** Gears are built from selected steel through multiple deep quenching processes for extended service life.
- **Wide Tapping Range:** Capable of tapping various materials including Aluminum (M3-M14), Iron (M3-M12), and Steel (M3-M10).
- **Industrial-Grade Design:** Suitable for professional applications such as tapping after drilling, clearing wire backs, correcting deformed threads, and cleaning rust from threaded holes.

SPECIFICATIONS

Specification	Value
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Model Number	FBM-YJ-004
Use Air Pressure	5-8 kg
Air Consumption	0.4 m³/min
Rotating Speed	0-250 RPM
Bare Machine Weight	1.5 kg
Product Dimensions (L x W x H)	12.3" x 1.9" x 1.9" (313mm x 49mm x 49mm approx.)
Power Source	Air Powered
Voltage (for reference, tool is air powered)	110 Volts (as listed in specifications, likely for associated equipment)
Color	Black
Maximum Tapping (Aluminum)	M3-M14
Maximum Tapping (Iron)	M3-M12
Maximum Tapping (Steel)	M3-M10
Package Contents	1 x Tapping Machine, 1 x Chuck (M10 chuck included for M6/8 model)

SETUP

1. **Unpacking:** Carefully remove the tapping machine and all accessories from the packaging. Verify that all components listed in the "Package Contents" are present.
2. **Air Supply Connection:** Connect the air inlet of the tapping machine to a compressed air source. Ensure the air pressure is within the recommended range of 5-8 kg. A suitable air compressor is required for operation.
3. **Chuck Installation:** Install the appropriate chuck onto the tapping machine. Ensure it is securely fastened.
4. **Tap Installation:** Insert the desired tap into the chuck. Tighten the chuck to firmly hold the tap.
5. **Initial Air Purge:** Before first use, connect the air supply and briefly operate the machine without a tap or workpiece to purge any moisture or debris from the air lines.

Paired with a mechanical arm for better results

More stable concentricity and higher efficiency



Figure 5: The pneumatic tapping machine shown paired with a mechanical arm. While the machine can be handheld, pairing it with a mechanical arm can provide more stable concentricity and higher efficiency for certain applications.

OPERATING INSTRUCTIONS

1. **Prepare Workpiece:** Securely clamp the workpiece to prevent movement during tapping. Ensure the hole to be tapped is pre-drilled to the correct size for the tap.
2. **Select Tap:** Choose the correct tap size for your application, ensuring it is within the machine's tapping range for the material.
3. **Adjust Speed:** If applicable, adjust the machine's speed according to the material and tap size.
4. **Initiate Tapping:** Position the tap over the pre-drilled hole. Press the forward switch to start the tapping process. Apply gentle, consistent pressure.
5. **Monitor Progress:** Allow the machine to guide the tap into the material. Do not force the tap.
6. **Reverse Tap:** Once the desired depth is reached, or if the tap binds, release the forward switch and press the backward switch to reverse the tap out of the hole.
7. **Complete Operation:** Once the tap is fully retracted, release the backward switch.

Strong force and good quality

Tapping range : M3-M12 on iron; M3-M10 on steel; M3-M14 on aluminum



Figure 6: The tapping machine actively engaged in a tapping operation, illustrating its strong force and good quality performance on a metal workpiece. This image emphasizes the tool's capability in creating precise threads.

Industrial grade pneumatic tapping machine

Suitable for:
tapping after drilling on the
material workpiece, smooth
and rewind after painting,
cleaning after welding, clean
the rust on the threaded hole

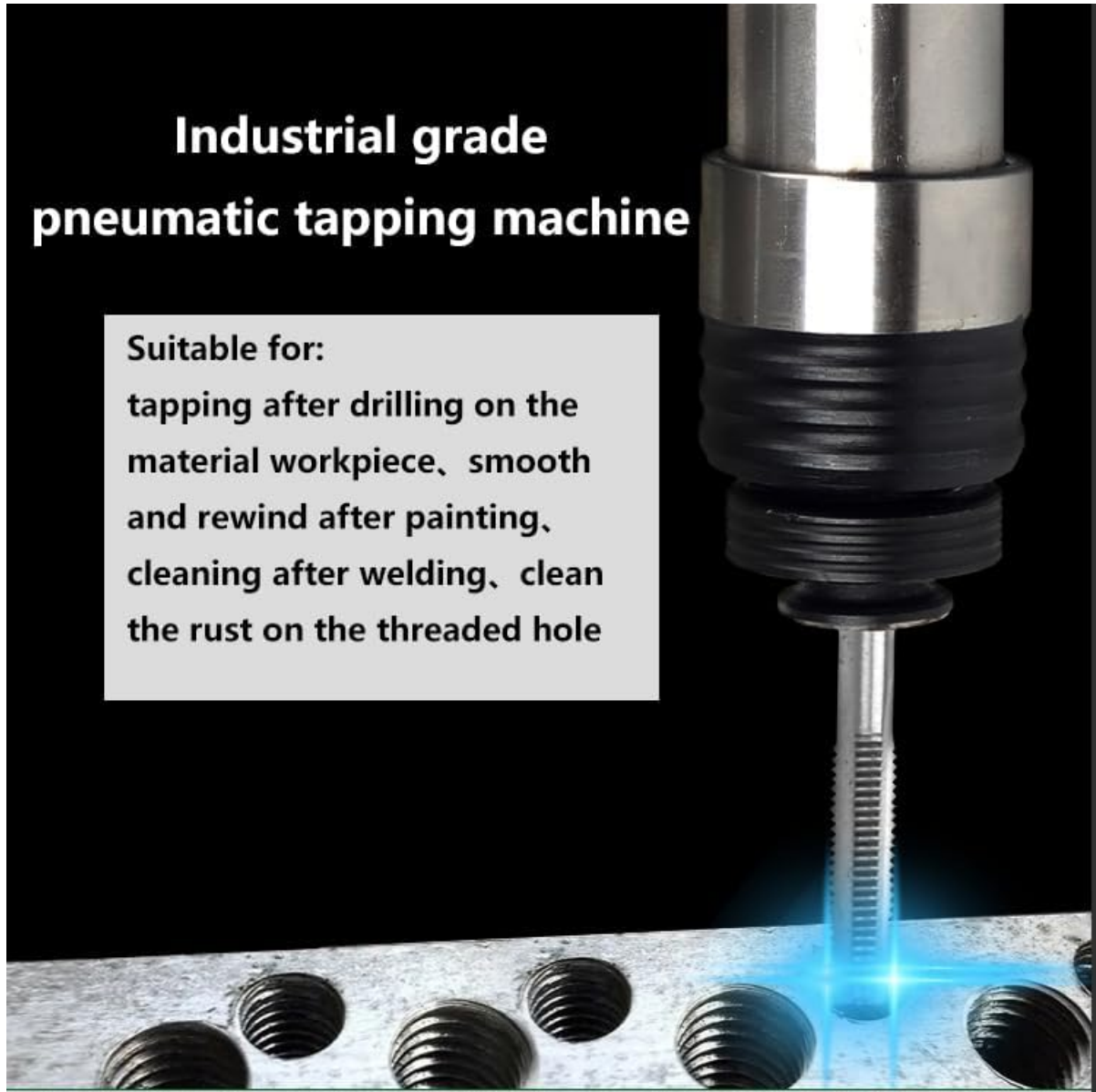


Figure 7: An industrial-grade pneumatic tapping machine performing a tapping operation. This image highlights its suitability for various tasks including tapping after drilling, cleaning threads, and correcting deformities.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your tapping machine.

- **Air Line Lubrication:** Ensure your air supply system includes an inline oiler to provide continuous lubrication to the pneumatic motor. Use pneumatic tool oil.
- **Cleaning:** After each use, clean the machine to remove any metal chips, dust, or debris. Use compressed air to blow out internal components if necessary.
- **Chuck Inspection:** Regularly inspect the chuck for wear or damage. Replace if necessary to ensure proper tap gripping.
- **Storage:** Store the machine in a clean, dry environment when not in use.
- **Professional Service:** For complex repairs or internal component issues, seek professional service.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Machine does not operate or operates weakly.	Low air pressure; Air hose kinked or blocked; Air inlet filter clogged; Internal mechanism issues.	Check air compressor pressure (must be 5-8kg); Inspect air hose for obstructions; Clean or replace air inlet filter; Contact service if internal issue suspected.
Tap binds or breaks frequently.	Incorrect tap size for material; Insufficient lubrication; Workpiece not secure; Excessive force applied; Dull or damaged tap.	Verify tap size and material compatibility; Ensure air line oiler is functioning; Secure workpiece firmly; Apply gentle, consistent pressure; Replace tap if dull or damaged.
Machine overheats.	Continuous operation without breaks; Insufficient lubrication; Overloading.	Allow machine to cool down between prolonged uses; Check air line lubrication; Ensure not exceeding tapping capacity.
Excessive air leakage.	Loose fittings; Damaged seals or O-rings.	Tighten all air fittings; Inspect and replace damaged seals or O-rings.

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact Consfly customer service. Keep your purchase receipt as proof of purchase.

Consfly Customer Service: Please refer to the contact information provided with your product packaging or visit the official Consfly website for the most up-to-date support details.

Online Resources: For additional information and product updates, you may visit the [Consfly Store on Amazon](#).

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question