

## FTOYIN NailDrill-P01

# FTOYIN Electric Nail Drill Professional User Manual

**Model:** NailDrill-P01 | **Brand:** FTOYIN

## 1. INTRODUCTION

Thank you for choosing the FTOYIN Electric Nail Drill Professional. This rechargeable nail file is designed for efficient and precise nail care, suitable for both home users and salon professionals. It is ideal for various tasks including filing, shaping, polishing, and removing acrylic or gel nails. Please read this manual thoroughly before first use to ensure safe and optimal operation.



Figure 1: FTOYIN Electric Nail Drill Professional and included accessories.

## 2. SAFETY INFORMATION

To prevent injury or damage to the device, always adhere to the following safety precautions:

- Keep the device away from water or wet environments.
- Do not disassemble or attempt to repair the device yourself. Contact qualified personnel for service.
- Always unplug the device before cleaning or when not in use for extended periods.
- Ensure the power adapter and cable are not damaged before use.
- Keep out of reach of children.
- Wear appropriate eye protection during operation to prevent eye injury from flying debris.
- Avoid touching the rotating drill bit during operation.
- Do not apply excessive pressure, which can cause overheating or damage to the nail or device.

## 3. PACKAGE CONTENTS

Verify that all items are present in your package:

- FTOYIN Electric Nail Drill Main Unit
- Handpiece

- 7 Professional Grinding Heads (Drill Bits)
- Sanding Bands
- USB Type-C Charging Cable
- User Manual

#### 4. FEATURES

- **High Speed Performance:** Equipped with high-quality bearings, offering adjustable speeds up to 45,000 RPM for efficient nail work.
- **Long Battery Life:** High-capacity battery provides 8-10 hours of working time on a 2-hour charge.
- **HD LCD Display:** Clearly shows speed, rotation direction (forward/reverse), and remaining battery level.
- **Low Noise & Vibration:** Designed for quiet and smooth operation, ensuring a comfortable user experience.
- **Excellent Heat Dissipation:** High-quality aluminum alloy housing and unique ventilation holes prevent overheating.
- **Multi-Purpose Drill Bits:** Includes 7 professional grinding heads suitable for various nail types and tasks (carving, milling, sanding, polishing, etc.).
- **Portable Design:** Compact and lightweight with a belt clip for easy carrying and use anywhere.

## 0-45000 PRM Adjustable Speed

*Ultra-high speed, fast nail removal and polishing*



Low Noise



Low Heat



Low Vibration



Heat Dissipation

Figure 2: High-speed motor and low vibration design.



Figure 3: Smart Digital Display for easy monitoring.



Figure 4: Benefits of the advanced motor and design.

## 5. SPECIFICATIONS

Attribute	Value
Brand	FTOYIN
Model Name	P01 (NailDrill-P01)
Max Speed	45,000 RPM
Power Source	Battery Powered
Battery Life (Working)	8-10 Hours
Charging Time	Approx. 2 Hours
Charging Port	USB Type-C
Item Weight	0.51 Kilograms (1.12 Pounds)
Package Dimensions	8.54 x 7.17 x 1.73 inches

## 6. SETUP

### 6.1 Charging the Device

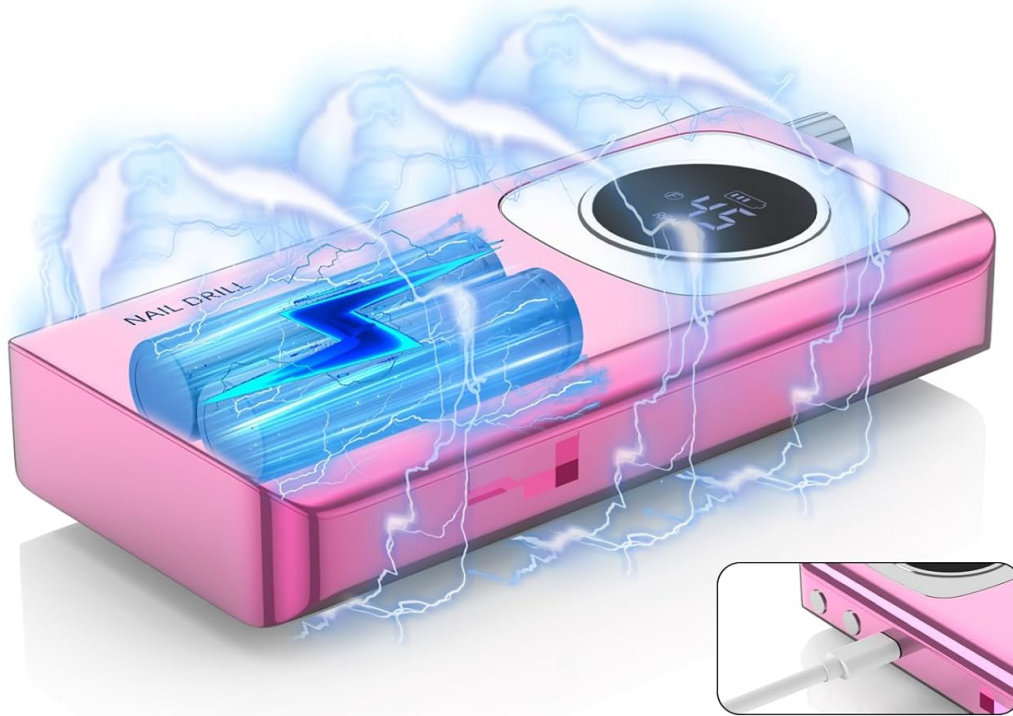
Before first use, fully charge the nail drill. The LCD display will indicate the battery level.

1. Connect the USB Type-C charging cable to the charging port on the main unit.
2. Connect the other end of the cable to a compatible USB power adapter (DC5V 2.0A recommended) or a computer USB port.
3. The battery icon on the LCD will show charging progress. A full charge typically takes about 2 hours.



# 10 Hour

## Large Capacity Battery



Charging Time

**2H**

Working Time

**8-10H**

**USB Type-C**  
Charging port

Figure 5: Battery and charging information.



### 0-45,000 RPM Adjustable Speed

Ultra-high speed, fast nail removal and polishing

	<b>0-15,000RPM</b> for natural nails, dead skin
	<b>15,000-25,000RPM</b> for gel /acrylic nail
	<b>25,000-45,000RPM</b> for professional nai art work

Figure 6: Fast charging capability.

## 6.2 Attaching and Changing Drill Bits

The handpiece features a twist-lock mechanism for secure bit changes.

1. Ensure the device is turned off before changing bits.
2. Twist the handpiece in the unlocking direction (usually counter-clockwise) until you hear a click.

3. Remove the current bit or insert the desired bit firmly into the chuck.
4. Twist the handpiece in the locking direction (usually clockwise) until it clicks into place, securing the bit.

## ***How To Replace the Drill Bit***



Twisting the handpiece to the unlocking direction



Remove the original bit



Insert the bit you need



Twisting the handpiece to the locking direction

*Figure 7: Step-by-step guide for replacing drill bits.*



*Figure 8: Overview of the included multifunctional drill bits.*

## 7.1 Power On/Off and Speed Adjustment

1. Connect the handpiece to the main unit.
2. Turn the speed adjustable knob (located on top of the main unit) clockwise to power on the device and increase speed. The LCD will display the current RPM.
3. Turn the knob counter-clockwise to decrease speed and turn off the device.



Figure 9: Speed adjustable knob for power and RPM control.

## 7.2 Changing Rotation Direction (F/R)

The device supports both forward (F) and reverse (R) rotation, suitable for left-handed and right-handed users.

- Press the F/R button (located on the side of the main unit) to switch between forward and reverse rotation.
- The LCD display will indicate the current rotation direction (F or R).



Figure 10: Forward/Reverse switch for directional control.

## 7.3 Recommended Speed Settings

- **0-15,000 RPM:** Ideal for natural nails and cuticle work.
- **15,000-25,000 RPM:** Suitable for gel and acrylic nail removal or shaping.
- **25,000-45,000 RPM:** For professional nail art work and heavy-duty tasks.



## Indulge in The Ultimate Nail Pampering Experience!



Figure 11: Recommended RPM settings for various applications.

### 7.4 General Usage Tips

- Always start with a low speed and gradually increase as needed.
- Use light pressure and keep the drill bit moving to avoid heat buildup and damage to the nail.
- Practice on artificial nails before working on natural nails.
- Clean the drill bits after each use to maintain hygiene and performance.

## Ideal For Nail Tech & Beginners

School / Colege / At-home DIY



Figure 12: The nail drill is suitable for various users and applications.

## 8. MAINTENANCE

### 8.1 Cleaning

- Disconnect the handpiece from the main unit and ensure the device is off before cleaning.
- Use a soft, dry cloth to wipe down the main unit and handpiece.
- Clean drill bits with a brush and disinfectant solution after each use. Ensure they are completely dry before storage.
- Do not use abrasive cleaners or immerse the device in water.

### 8.2 Storage

- Store the device and accessories in a cool, dry place, away from direct sunlight and moisture.
- Keep the drill bits in their designated case to prevent damage and loss.

## 9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not turn on.	Low battery; Power knob not turned sufficiently.	Charge the device fully; Turn the speed knob clockwise until the display lights up.
Drill bit is loose or wobbles.	Bit not inserted correctly; Handpiece not locked.	Ensure the bit is fully inserted and the handpiece is twisted to the locked position.
Device stops during operation.	Low battery; Overload protection activated.	Recharge the device; Reduce pressure on the nail and allow the device to cool down.
Excessive heat from handpiece.	Prolonged use at high speed; Excessive pressure.	Reduce speed or take a break; Use lighter pressure.

## 10. WARRANTY AND SUPPORT

FTOYIN products are manufactured to high-quality standards. For any issues or questions regarding your Electric Nail Drill Professional, please contact the seller or manufacturer directly through the platform where you purchased the product. Please retain your proof of purchase for warranty claims.