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## xTool MXP-P012-A01

# xTool Intelligent Conveyor Feeder for xTool P3 CO2 Laser Cutter User Manual

Model: MXP-P012-A01

## 1. INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of the xTool Intelligent Conveyor Feeder, designed to enhance the capabilities of your xTool P3 80W CO2 Laser Cutter. This accessory enables automatic material feeding, significantly expanding the work area and streamlining large-scale or batch engraving and cutting projects.

# Large-Scale Creation is Now Automated

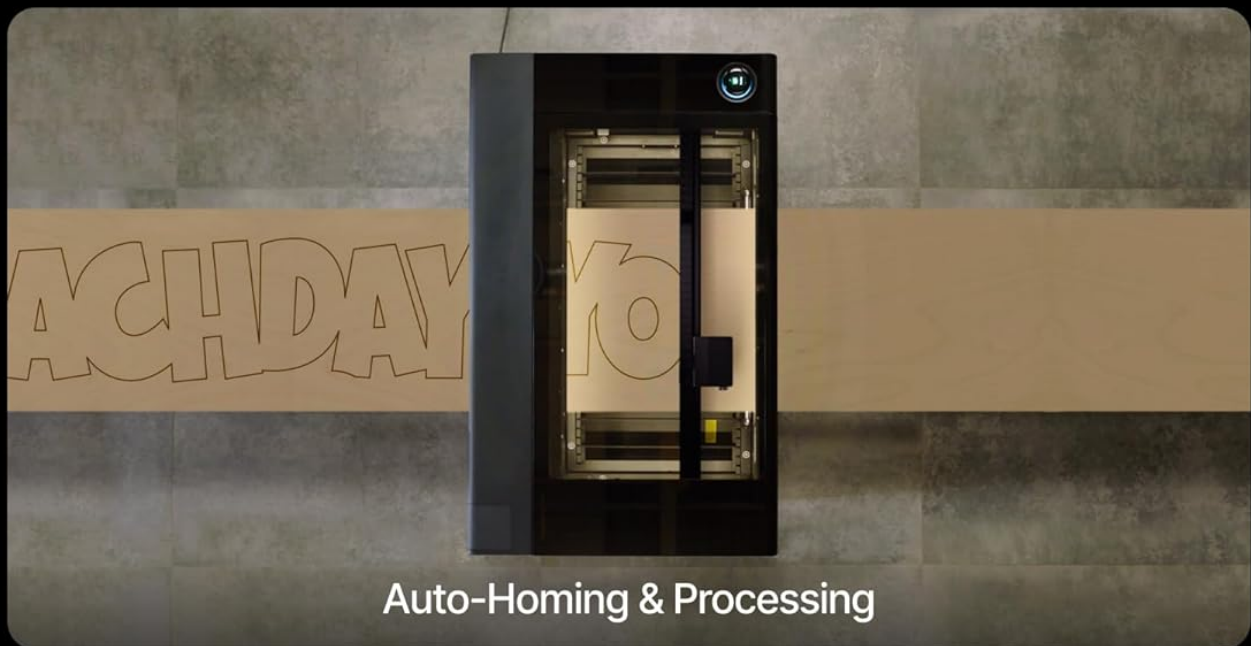
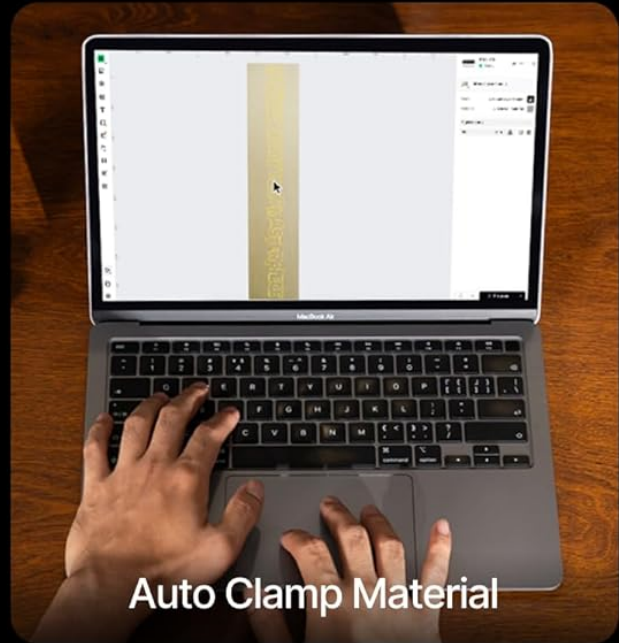


Figure 1.1: xTool Intelligent Conveyor Feeder connected to the xTool P3 laser cutter.

## 2. PRODUCT OVERVIEW AND KEY FEATURES

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The xTool Intelligent Conveyor Feeder is engineered to provide an extended and automated workspace for your xTool P3 laser cutter. Its innovative design focuses on efficiency and precision for continuous processing.

### Key Features:

- **Full-Size Conveyor Preview:** Utilizes AI Seamless Tiling Preview to eliminate blind spots and ensure accurate design placement across the entire work area.
- **Automated Setup:** Features automatic material clamping, homing, and preview functions to reduce manual intervention and save time.
- **Expanded Work Area:** Supports a work area of 24.01" x 51.18" (standard kit) with 3-axis (X+Y+U) motion control, significantly larger than the standard P3 work area.
- **Increased Material Thickness:** Accommodates materials up to 26mm thick.
- **High Processing Speed:** Achieves speeds up of to 200mm/s for efficient operation.
- **Integrated Design:** Features a one-time installation base and detachable suspended rails, removing the need for additional support tables for standard rail configurations.

# Handle Giant Creation or Countless Batch Items



Figure 2.1: Automated material handling with auto clamping and auto homing for continuous processing.

Standard Kit

# A Massive 111% Larger Work Area

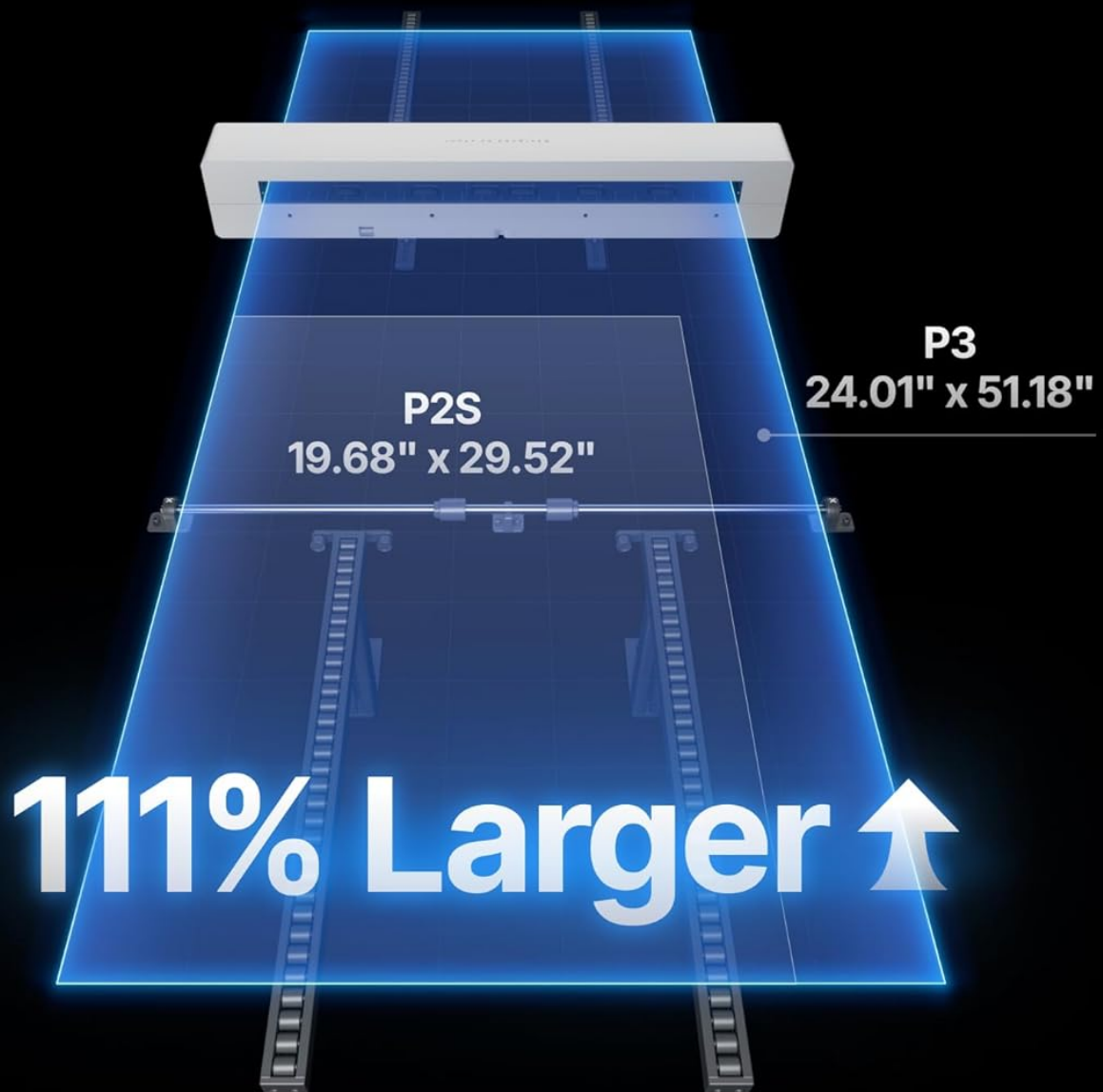


Figure 2.2: Key performance metrics including material thickness, processing speed, and work area.

## 3. SETUP AND INSTALLATION

The Conveyor Feeder is designed for straightforward integration with your xTool P3. Follow these steps for proper installation.

### 3.1 Unpacking and Component Check

Carefully unpack all components. Verify that all parts listed in the packing list are present and undamaged. Keep packaging materials for future transport or storage.

### 3.2 Attaching the Conveyor Feeder to xTool P3

1. Ensure your xTool P3 laser cutter is powered off and disconnected from the power source.
2. Position the Conveyor Feeder base unit securely next to the xTool P3. The integrated design allows for a one-time installation.
3. Attach the detachable suspended rails to the main unit. These rails are designed to extend the work area without requiring additional support tables for standard configurations.
4. Connect the necessary cables from the Conveyor Feeder to the xTool P3 as indicated in the quick start guide (refer to the specific port labels).

## Work with True Vision, Not an Outline

The P3's full AI preview ensures your design is perfectly placed before you ever press the start button.

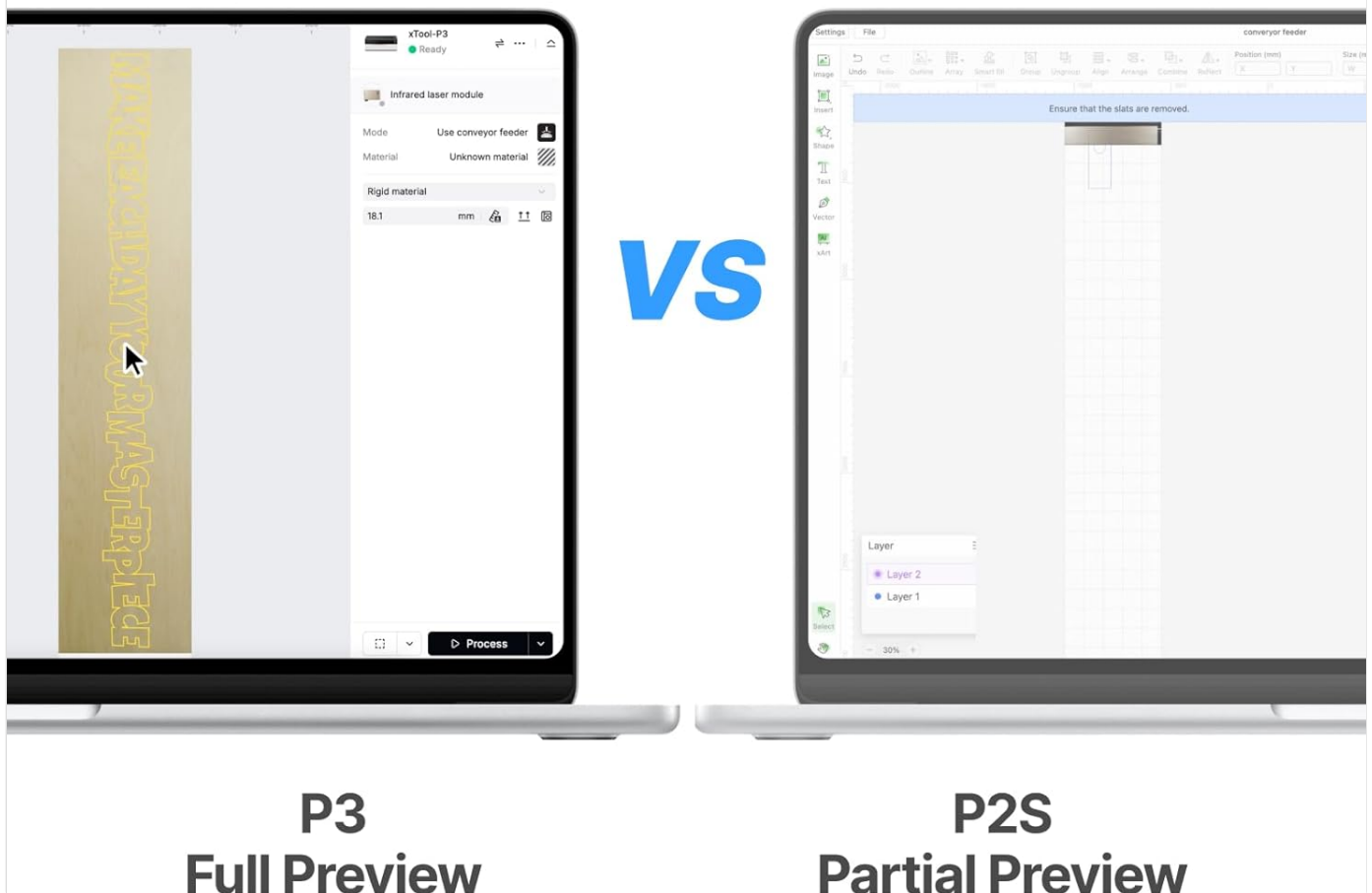


Figure 3.1: Integrated design for convenient and safe operation, showing auto clamping.

### 3.3 Initial Power-On and Calibration

1. Reconnect the xTool P3 to power and turn it on.
2. Launch the xTool software. The software should detect the connected Conveyor Feeder.
3. Perform initial calibration steps as prompted by the software to ensure proper alignment and functionality of the feeder. This includes automatic homing.

## **4. OPERATING INSTRUCTIONS**

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The xTool Intelligent Conveyor Feeder simplifies large-scale projects through its automated features.

### **4.1 Material Loading and Automatic Clamping**

1. Place your material onto the Conveyor Feeder's input area. Ensure the material is flat and properly aligned with the feeder's guides.
2. Initiate the automatic material clamping function through the xTool software. The feeder will automatically secure the material for stable processing.

# Clever Integration, More Convenient and Safer

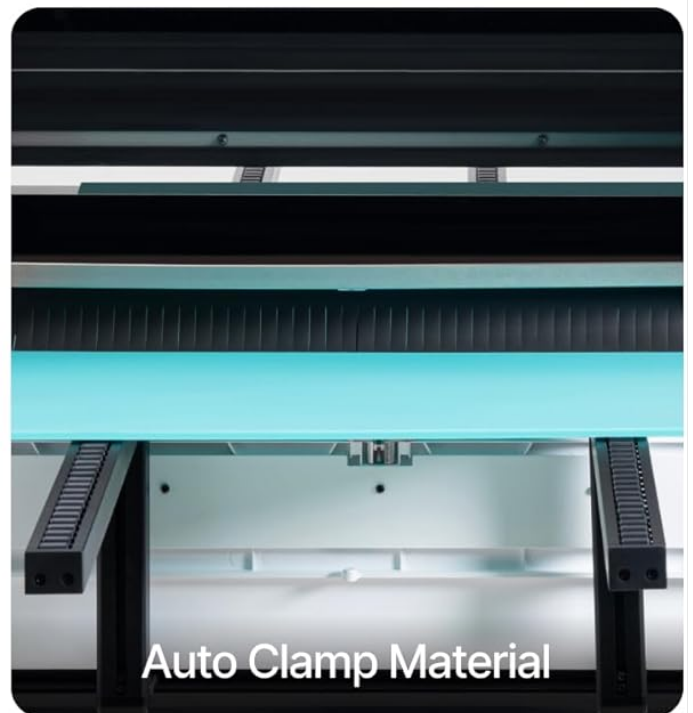


Figure 4.1: Detail of the automatic clamping mechanism ensuring a smooth and stable material feed.

## 4.2 AI Seamless Tiling Preview

The Conveyor Feeder integrates with the xTool P3's AI Seamless Tiling Preview feature. This allows you to see a full, accurate preview of your design across the entire extended work area before starting the engraving or cutting process. This eliminates guesswork and ensures precise placement, even for designs larger than the P3's standard bed.

# Auto Clamp Material for Smooth, Stable Feed



Figure 4.2: Visual representation of the expanded work area provided by the Conveyor Feeder for the xTool P3.

# Go 85% Thicker, 25% Faster, Infinitely Longer



Max

**26mm**

Material Thickness

Max (Standard Kit)

**24" x 59"**

Placeable Material

Max

**200mm/s**

Processing Speed

Max (With Extra Rails)

**24" x ∞"**

Placeable Material

Figure 4.3: Examples of large-scale and batch items that can be processed with the Conveyor Feeder.



Figure 4.4: The P3's full AI preview ensures precise design placement before processing.

### 4.3 Processing

Once the material is clamped and the preview is confirmed, initiate the engraving or cutting process through the xTool software. The Conveyor Feeder will automatically feed the material through the laser cutter, allowing for continuous operation on long materials or multiple batch items.

## 5. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your xTool Intelligent Conveyor Feeder.

### 5.1 Cleaning

- Periodically clean the conveyor belt and rollers to prevent dust and debris buildup, which can affect material feeding accuracy. Use a soft, dry cloth or a vacuum cleaner.
- Ensure the clamping mechanisms are free from obstructions.

## 5.2 Inspection

- Regularly inspect the conveyor belt for signs of wear or damage.
- Check all cable connections to ensure they are secure.

## 5.3 Lubrication

Refer to the xTool P3 main manual for specific lubrication requirements for moving parts, if applicable. The Conveyor Feeder generally requires minimal lubrication.

## 6. TROUBLESHOOTING

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This section addresses common issues you might encounter with the xTool Intelligent Conveyor Feeder.

Problem	Possible Cause	Solution
Material not feeding smoothly.	Debris on conveyor belt or rollers; material not properly aligned; clamping mechanism issue.	Clean the conveyor path. Realign the material. Check clamping mechanism for obstructions.
Conveyor Feeder not detected by software.	Loose cable connection; software not updated; feeder not powered on.	Ensure all cables are securely connected. Update xTool software to the latest version. Verify the feeder is powered on.
Inaccurate preview or design placement.	Calibration required; material shifted after preview.	Perform software calibration. Ensure material is firmly clamped and does not move after preview.

If you encounter issues not listed here, please refer to the xTool P3 main user manual or contact xTool customer support.

## 7. SPECIFICATIONS

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Feature	Detail
Model Number	MXP-P012-A01
Product Dimensions	32.8 x 11.42 x 9.25 inches
Item Weight	21.5 pounds
Max Material Thickness	26mm
Max Processing Speed	200mm/s
Work Area (Standard Kit)	24.01" x 51.18"
Motion Control	3-axis (X+Y+U)
Date First Available	October 29, 2025
Manufacturer	Makeblock Co., Ltd.

## 8. WARRANTY AND SUPPORT

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### 8.1 Warranty Information

The xTool Intelligent Conveyor Feeder comes with a standard manufacturer's warranty. Please refer to the warranty card included with your product or visit the official xTool website for detailed warranty terms and conditions. Keep your proof of purchase for warranty claims.

## 8.2 Customer Support

For technical assistance, troubleshooting, or spare parts, please contact xTool customer support. You can find contact information on the official xTool website or through your purchase platform.

- **Online Support:** Visit the xTool Official Store or the xTool official website.
- **Email Support:** Refer to your product documentation for the support email address.

