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> CXRCY 12" x 18" Wood Lathe Instruction Manual

## CXRCY MC1218

# CXRCY 12" x 18" Wood Lathe Instruction Manual

Model: MC1218 | Brand: CXRCY

## 1. IMPORTANT SAFETY INFORMATION

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Read and understand all instructions before operating this wood lathe. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

### 1.1 General Safety Rules

- **Work Area Safety:** Keep your work area clean and well-lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which may ignite the dust or fumes.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- **Personal Safety:** Always wear eye protection (safety goggles are included with the product). Use hearing protection when operating the lathe for extended periods. Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which could become caught in moving parts. Tie back long hair.
- **Machine Specific Safety:** Ensure the workpiece is securely mounted before starting the lathe. Never leave the lathe running unattended. Always disconnect power before making adjustments, changing accessories, or performing maintenance.

## 2. PRODUCT OVERVIEW

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The CXRCY 12" x 18" Wood Lathe is a benchtop machine designed for woodworking, offering variable speed control and a robust cast iron construction. It is suitable for turning various wooden items such as bowls, pens, and small furniture components.

### 2.1 Components



Figure 2.1: Main components of the CXRCY Wood Lathe, including the headstock, tailstock, tool rest, and motor. Also shown are the instruction manual, wrenches, and safety goggles.

- **Headstock:** Contains the motor, spindle, and speed control. Features a digital display for RPM.
- **Tailstock:** Supports the workpiece opposite the headstock. It is movable and adjustable for different workpiece lengths.
- **Tool Rest:** Provides a stable platform for holding turning tools during operation.
- **Bed:** The main frame of the lathe, providing stability and guiding the tailstock and tool rest.
- **Motor:** 3/4 HP pure-copper motor providing power for turning.
- **Digital Display:** Shows the current spindle speed (RPM).

## 2.2 Key Features

- **12" Swing Over Bed & 18" Distance Between Centers:** Accommodates workpieces up to 12 inches in diameter and 18 inches in length.
- **Infinitely Variable Speed:** Speed range from 650 RPM to 3800 RPM, adjustable in three levels: Low (650-1450 RPM), Mid (1250-2800 RPM), and High (1600-3800 RPM).
- **High Definition Digital Display:** Provides clear real-time RPM readings.
- **Cast Iron Construction:** Ensures stability and reduces vibration during operation.

- **Detachable Switch-box:** For convenient control.
- **Shock Absorbing Feet:** Enhances stability and reduces vibration.

## 2.3 Specifications

Specification	Value
Model Number	MC1218
Swing Over Bed	12 inches
Distance Between Centers	18 inches
Motor Power	3/4 HP (550 Watts)
Voltage	110 Volts AC
Variable Speed Range	650-3800 RPM
Material	Cast Iron
Item Weight	75.8 pounds
Product Dimensions	32.28 x 4.33 x 16.54 inches

# PRODUCTS FEATURES



High Definition Digital Display



Detachable Switch-box



Shock Absorbing Foot



Movable Tailstock

Figure 2.2: Detailed dimensions of the CXRCY Wood Lathe, showing length, height, and swing capacity.

## 3. SETUP AND ASSEMBLY

Before operating the lathe, ensure it is properly assembled and securely mounted to a stable workbench.

### 3.1 Unpacking and Inspection

- Carefully remove all components from the packaging.
- Inspect all parts for any shipping damage. If any damage is found, do not proceed with assembly and contact customer support.
- Verify that all listed components and accessories are present.

### 3.2 Assembly Steps

1. **Mounting the Lathe:** Securely bolt the lathe to a sturdy workbench using appropriate fasteners. The lathe base has pre-drilled holes for mounting. Ensure the workbench can support the weight and vibrations of the lathe during operation.

2. **Attaching the Tool Rest:** Slide the tool rest base onto the lathe bed and secure it with the locking handle. Adjust the height and position of the tool rest to suit your turning needs.
3. **Positioning the Tailstock:** Slide the tailstock onto the lathe bed. It can be moved along the bed and locked into position using its locking lever.
4. **Connecting Power:** Ensure the power switch is in the "OFF" position before plugging the lathe into a grounded 110V AC outlet.



Figure 3.1: Detail of the tool rest locking mechanism, showing how to secure it to the lathe bed.



Figure 3.2: The movable tailstock, demonstrating its adjustment knob for securing workpieces.

## 4. OPERATING INSTRUCTIONS

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This section details the steps for safely operating your CXRCY wood lathe.

### 4.1 Mounting a Workpiece

1. Select a suitable workpiece free of cracks, knots, or foreign objects.
2. Mount the workpiece between the headstock drive center and the tailstock live center. Ensure the workpiece is centered and held firmly.
3. Adjust the tailstock to apply sufficient pressure to secure the workpiece, then lock the tailstock in place.
4. Rotate the workpiece by hand to ensure it clears the tool rest and other parts of the lathe.

### 4.2 Speed Control

The lathe features infinitely variable speed control with three distinct ranges:

- **Low Speed:** 650-1450 RPM (Ideal for larger diameter workpieces or initial roughing).
- **Mid Speed:** 1250-2800 RPM (Suitable for medium-sized work and general turning).
- **High Speed:** 1600-3800 RPM (Best for smaller diameter workpieces and finishing).

Adjust the speed using the control knob on the headstock. The digital display will show the current RPM.

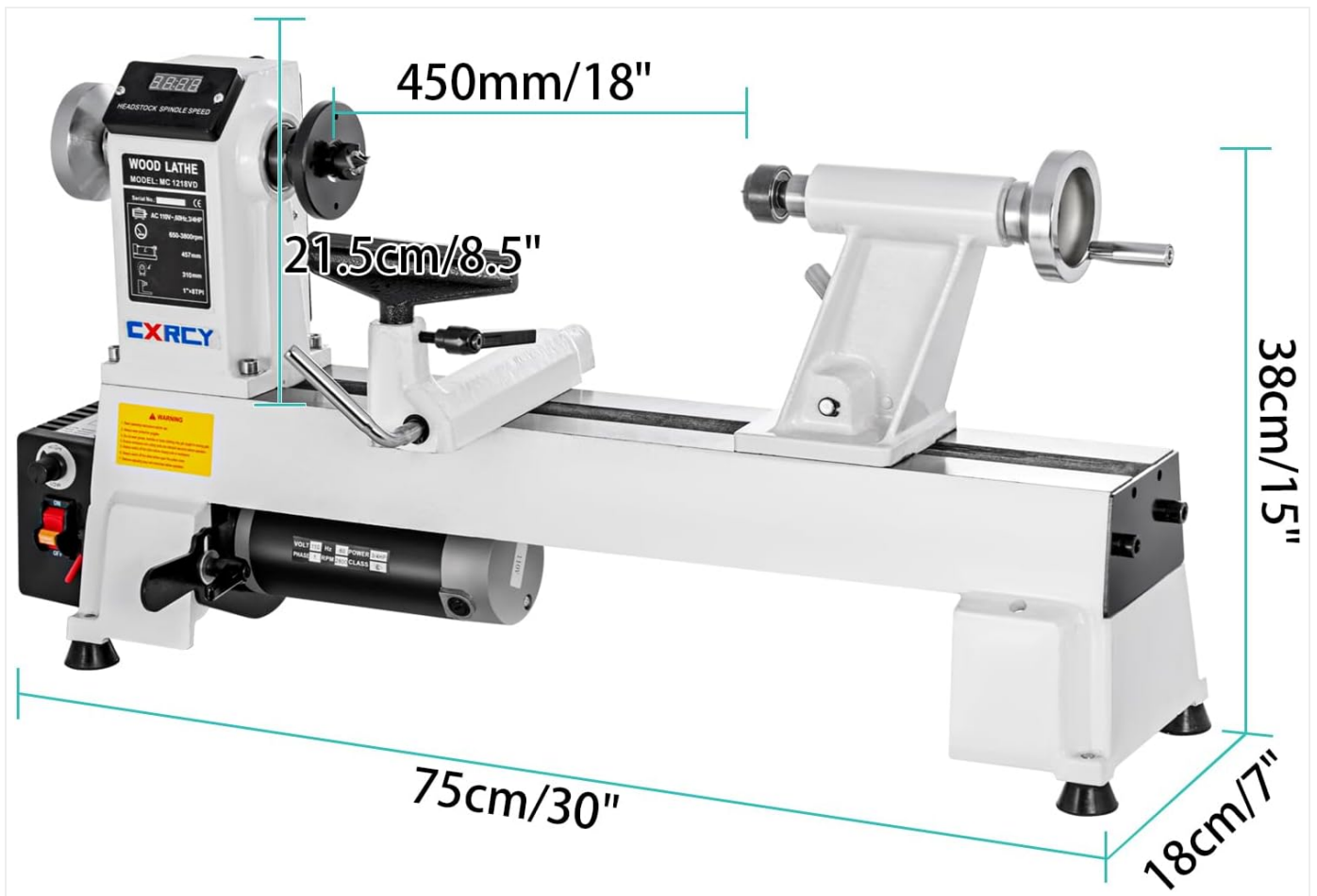


Figure 4.1: The digital display on the headstock showing the current spindle speed (RPM).

# VARIABLE SPEED (650-3800 RPM)



Figure 4.2: The variable speed control knob and the main power switch, located on the side of the headstock.

## 4.3 Turning Operations

1. Always wear safety goggles before starting the lathe.
2. Turn on the lathe and allow it to reach the desired speed.
3. Position the tool rest as close as possible to the workpiece without touching it.
4. Using appropriate turning tools, begin shaping the workpiece. Always apply light, controlled pressure.
5. Regularly check the workpiece for stability and adjust the tool rest as the diameter of the workpiece changes.
6. When finished, turn off the lathe and allow the workpiece to come to a complete stop before removing it.



Figure 4.3: A user demonstrating the operation of the wood lathe, shaping a wooden piece with a turning tool.



Figure 4.4: Detailed view of a workpiece being turned on the lathe, illustrating the process of material removal and the resulting wood shavings.

## 5. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your wood lathe.

### 5.1 Cleaning

- Always disconnect the lathe from power before cleaning.
- Remove wood chips and dust from the lathe bed, headstock, and tailstock after each use. A brush or vacuum cleaner is recommended.
- Wipe down all surfaces with a clean, dry cloth. Avoid using solvents that may damage painted surfaces.

### 5.2 Lubrication

- Periodically apply a light coat of machine oil to the lathe bed and tailstock quill to ensure smooth movement.

- Check the headstock bearings for any signs of wear or excessive noise. Consult a qualified technician if issues are detected.

### 5.3 General Care

- Store the lathe in a dry environment to prevent rust.
- Inspect power cords and plugs for damage regularly. Replace if necessary.
- Ensure all nuts, bolts, and fasteners are tight before each use.

## 6. TROUBLESHOOTING

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This section provides solutions to common issues you might encounter with your CXRCY wood lathe.

Problem	Possible Cause	Solution
Lathe does not start.	No power supply; Power switch off; Emergency stop engaged.	Check power cord and outlet; Turn power switch ON; Disengage emergency stop button.
Motor loses speed or stalls under load.	Workpiece too large or unbalanced; Speed setting too low; Overload protection activated.	Reduce workpiece size or balance it; Increase speed setting; Reduce cutting pressure.
Excessive vibration during operation.	Workpiece unbalanced; Lathe not securely mounted; Loose components.	Balance workpiece; Ensure lathe is firmly bolted to workbench; Check and tighten all fasteners.
Tailstock not holding workpiece securely.	Tailstock not locked; Insufficient pressure from live center.	Ensure tailstock locking lever is engaged; Advance tailstock quill to apply more pressure.

## 7. WARRANTY AND SUPPORT

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The CXRCY 12" x 18" Wood Lathe comes with a **1-Year Warranty** and **Lifetime Technical Support**.

For warranty claims, technical assistance, or to order replacement parts, please contact CXRCY customer support through the retailer where the product was purchased or visit the official CXRCY brand store.

**CXRCY Brand Store:** [Visit CXRCY Store on Amazon](#)

## 8. PRODUCT VIDEOS

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Watch these official product videos for visual guidance on setup and operation.

*No official product videos from the seller are available for embedding at this time.*

