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SainSmart 93-BWL-A

SainSmart 93-BWL-A Wood Lathe Instruction Manual

Model: 93-BWL-A | Brand: SainSmart

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1. INTRODUCTION

Thank you for choosing the SainSmart 93-BWL-A Wood Lathe. This powerful 600W mini wood lathe is designed for both professionals and hobbyists, offering variable speed control for woodworking, turning, and milling projects. This manual provides essential information for safe operation, assembly, maintenance, and troubleshooting to ensure optimal performance and longevity of your tool.

Wide Application



Image 1.1: The SainSmart Wood Lathe is suitable for a wide range of applications, including pen making and bowl turning.

2. GENERAL SAFETY INSTRUCTIONS

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury when operating power tools. Read all instructions carefully before use.

2.1 Personal Safety

- **Wear appropriate safety gear:** Always wear safety glasses or a face shield, hearing protection, and a dust mask.
- **Dress properly:** Do not wear loose clothing, gloves, neckties, or jewelry that can get caught in moving parts. Tie back long hair.
- **Maintain proper footing and balance:** Do not overreach.
- **Avoid accidental starting:** Ensure the switch is in the OFF position before plugging in the tool.

2.2 Work Area Safety

- **Keep work area clean and well-lit:** Cluttered or dark areas invite accidents.
- **Do not operate power tools in explosive atmospheres:** Do not use in the presence of flammable

liquids, gases, or dust.

- **Keep children and bystanders away:** Distractions can cause you to lose control.

2.3 Electrical Safety

- **Avoid body contact with grounded surfaces:** Such as pipes, radiators, ranges, and refrigerators.
- **Do not expose power tools to rain or wet conditions:** Water entering a power tool will increase the risk of electric shock.
- **Do not abuse the cord:** Never use the cord for carrying, pulling, or unplugging the power tool. Keep cord away from heat, oil, sharp edges, or moving parts.

3. PACKAGE CONTENTS

Carefully unpack all items and ensure you have received all components listed below. If any parts are missing or damaged, contact SainSmart customer support immediately.



Image 3.1: The complete SainSmart Wood Lathe package, including the main unit and various accessories.

- SainSmart 93-BWL-A Wood Lathe Unit
- Face Plate
- Tailstock
- Tool Table
- 2 x Woodturning Chisels (1 flat/slanted, 1 hollow)

- Mounting Material (8 mounting screws)
- 2 x Open-ended Spanners
- Center Marking Gauge
- Instruction Manual

4. PRODUCT OVERVIEW

Familiarize yourself with the main components of your SainSmart Wood Lathe before assembly and operation.

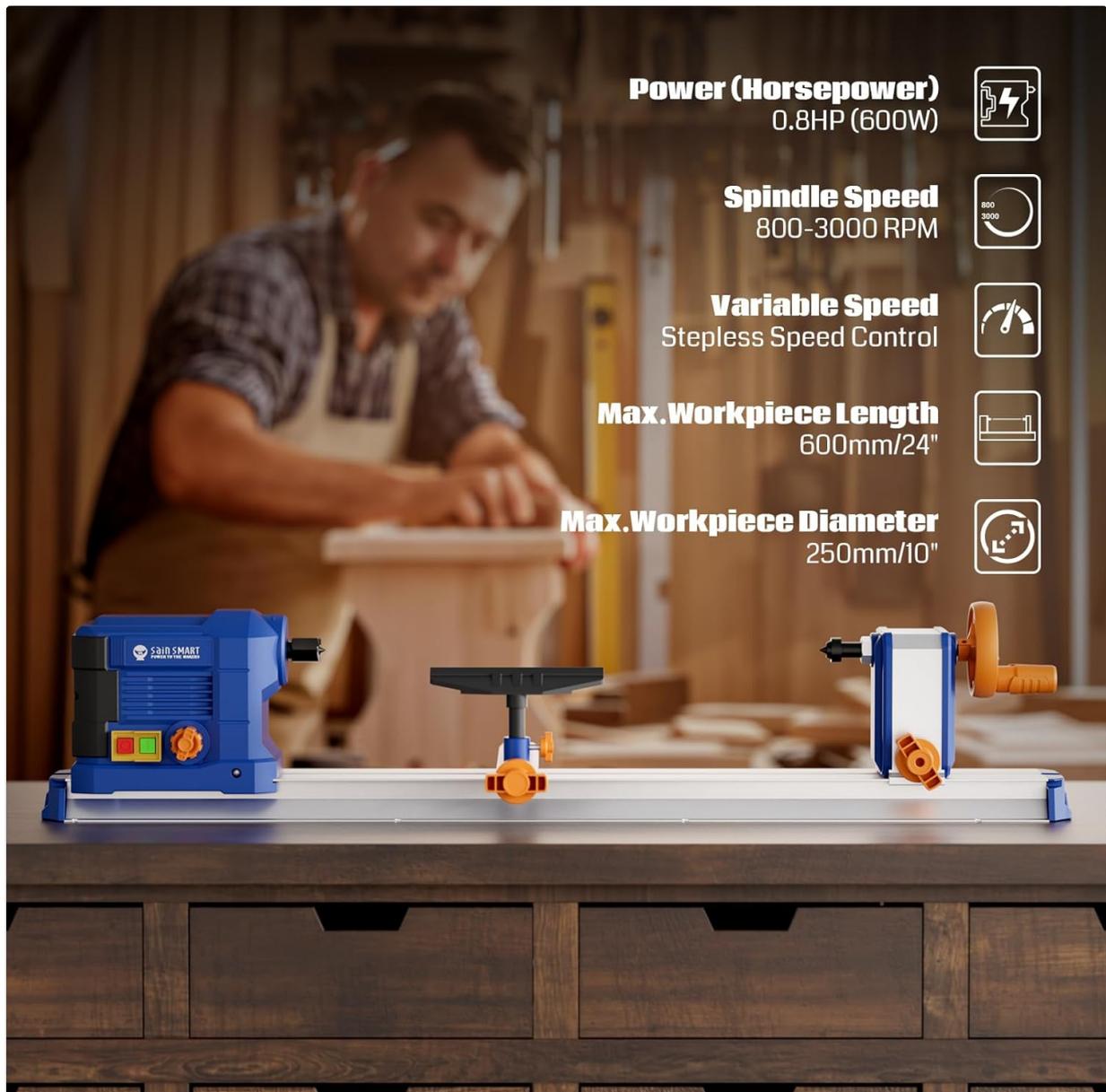


Image 4.1: Overview of the SainSmart Wood Lathe, highlighting its power, spindle speed, and workpiece capacities.

Key Components:

- **Headstock:** Contains the motor and spindle for rotating the workpiece.
- **Tailstock:** Provides support to the free end of the workpiece. Features a handwheel for adjustment.
- **Bed:** The main frame that supports the headstock, tailstock, and tool rest.
- **Tool Rest:** Adjustable support for holding turning tools during operation.
- **Variable Speed Control Knob:** Adjusts the spindle speed.

- **Power Switch:** ON/OFF control for the motor.

5. SETUP AND ASSEMBLY

Follow these steps to properly set up your wood lathe. Ensure the lathe is placed on a stable, level workbench.

5.1 Mounting the Lathe

1. Place the lathe on a sturdy workbench. The aluminum base is designed for stability.
2. Use the provided mounting screws to secure the lathe to your workbench. This is crucial for safe operation and to prevent vibration.



Image 5.1: Secure the lathe to a workbench using the provided screws for enhanced stability.

5.2 Attaching the Tool Rest

1. Slide the tool rest base onto the lathe bed.
2. Position the tool rest approximately 1/8 inch (3mm) from the workpiece and slightly below the center line.

3. Tighten the locking mechanism to secure the tool rest in place. Always ensure the tool rest is firmly secured before starting the lathe.

5.3 Installing the Face Plate or Drive Center

1. For spindle turning, install the drive center into the headstock spindle.
2. For faceplate turning (e.g., bowls), screw the face plate onto the headstock spindle.

6. OPERATING INSTRUCTIONS

This section details how to safely and effectively operate your SainSmart Wood Lathe.

6.1 Mounting a Workpiece

1. **For Spindle Turning:** Mark the center of both ends of your workpiece. Tap the drive center into one end of the workpiece. Slide the tailstock towards the workpiece and engage the live center with the other end. Tighten the tailstock handwheel to apply firm pressure, ensuring the workpiece is securely held between the drive center and live center.
2. **For Faceplate Turning:** Securely attach your workpiece to the faceplate using appropriate screws. Ensure the screws are long enough to hold the workpiece firmly but do not protrude through the other side.

Power and Performance in Every Rotation



**Power
(Horsepower)**
0.8HP (600W)



Spindle Speed
800-3000 RPM

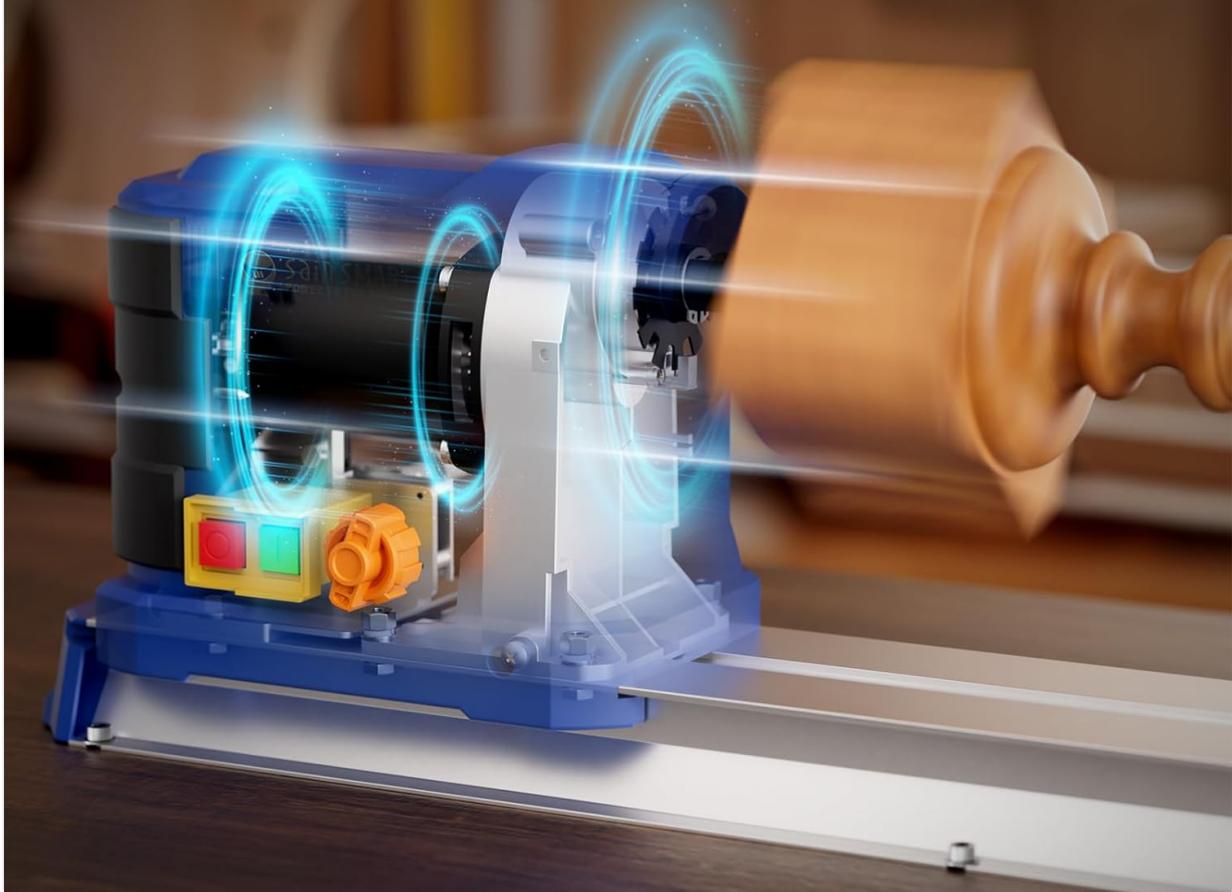


Image 6.1: The 0.8 HP (600W) motor provides consistent power for various turning tasks.

6.2 Adjusting Spindle Speed

The SainSmart Wood Lathe features step-less variable speed control, allowing adjustment from 800 to 3000 RPM.

1. Ensure the lathe is OFF before making major speed adjustments, especially when changing workpieces.
2. Turn the variable speed control knob to select the desired RPM. Start with a lower speed for larger or unbalanced workpieces and gradually increase as needed.
3. Always test the workpiece rotation at a low speed before beginning to cut to ensure it is balanced and securely mounted.



Image 6.2: The variable speed control allows precise adjustment from 800 RPM to 3000 RPM.

6.3 Turning Techniques

- Always use sharp chisels. Dull tools can cause kickback and poor cuts.
- Hold the chisel firmly against the tool rest.
- Apply light, consistent pressure when cutting. Do not force the tool.
- Move the tool smoothly along the workpiece.
- Periodically stop the lathe to check your progress and adjust the tool rest as needed.

6.4 Video Resources

For visual guidance on setup and operation, please refer to the following instructional videos:

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Video 6.1: Detailed overview and operational guide for the SainSmart Wood Lathe (Duration: 3:22).

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Video 6.2: Additional operational tips and techniques for woodturning (Duration: 3:00).

7. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your wood lathe.

7.1 Cleaning

- After each use, unplug the lathe and clean off all wood dust and debris from the bed, headstock, tailstock, and motor housing. Use a brush or compressed air.
- Do not use solvents or harsh chemicals that could damage plastic parts or finishes.

7.2 Lubrication

- Periodically apply a light coat of machine oil to the lathe bed to prevent rust and ensure smooth movement of the tailstock and tool rest.
- Lubricate the tailstock quill and screw mechanism as needed.

7.3 Tool Sharpening

- Keep your woodturning chisels sharp. Dull tools are less effective and can be dangerous.
- Refer to specific chisel sharpening guides for best results.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your wood lathe.

Problem	Possible Cause	Solution
Lathe does not start	No power supply Power switch OFF	Check power connection and outlet Ensure power switch is ON
Excessive vibration	Workpiece unbalanced Lathe not securely mounted Loose components	Re-center or re-balance workpiece Securely mount lathe to workbench Check and tighten all fasteners
Poor cutting performance	Dull chisels Incorrect speed Improper tool rest position	Sharpen chisels Adjust speed according to workpiece size and material Adjust tool rest to 1/8 inch from workpiece and slightly below center
Workpiece slips	Insufficient tailstock pressure Drive center not properly engaged	Increase tailstock pressure Ensure drive center is firmly seated in workpiece

9. SPECIFICATIONS

Technical specifications for the SainSmart 93-BWL-A Wood Lathe.

Feature	Specification
Model Number	93-BWL-A
Motor Power	0.8 HP (600W)
Spindle Speed	800-3000 RPM (Variable)
Max. Workpiece Diameter	250mm (10")
Max. Workpiece Length	600mm (24")
Extended Guide Rail Length	975mm
Product Dimensions	40.6"D x 8.86"W x 10.04"H
Item Weight	17.95 pounds
Frame Material	Metal
UPC	810168145068

10. WARRANTY AND SUPPORT

10.1 Warranty Information

SainSmart products are manufactured to high-quality standards. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. Please refer to the warranty card included in your package or visit the official SainSmart website for detailed warranty terms and conditions.

10.2 Customer Support

If you have any questions, require technical assistance, or need to report a problem with your SainSmart Wood Lathe, please contact our customer support team:

- **Website:** www.sainsmart.com
- **Email:** Refer to the website for current support email address.
- **Phone:** Refer to the website for current support phone number.

Please have your model number (93-BWL-A) and purchase information ready when contacting support.