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BLACK+DECKER KW1200EKA-QS

BLACK+DECKER KW1200EKA-QS Milling Machine User Manual

Model: KW1200EKA-QS

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, setup, and maintenance of your BLACK+DECKER KW1200EKA-QS Milling Machine. Please read this manual thoroughly before using the tool to ensure proper handling and to prevent injury or damage.



Figure 1: BLACK+DECKER KW1200EKA-QS Milling Machine with accessories and case.

The BLACK+DECKER KW1200EKA-QS is a powerful 1200W milling machine designed for precision routing tasks. It features variable speed control, a flat motor housing for easy bit changes, and a spindle lock for enhanced safety during cutter replacement. This model comes with a protective case and essential accessories for immediate use.

2. SAFETY INSTRUCTIONS

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury when operating power tools.

General Power Tool Safety

- **Work Area Safety:** Keep your work area clean and well-lit. Cluttered or dark areas invite accidents.
- **Electrical Safety:** Do not expose power tools to rain or wet conditions. Avoid body contact with earthed or grounded surfaces.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating for extended periods. Dress properly; avoid loose clothing or jewelry.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the

plug from the power source before making any adjustments, changing accessories, or storing power tools.

Specific Router Safety

- Always ensure the workpiece is securely clamped before routing.
- Never touch the router bit while the tool is running or immediately after use, as it will be hot.
- Ensure the router bit is correctly inserted and tightened before operation.
- Use appropriate dust extraction when possible to minimize dust exposure.

3. COMPONENTS AND FEATURES

Familiarize yourself with the main components of your milling machine:

- **Motor Housing:** Contains the 1200W motor.
- **Handles:** Ergonomically designed for comfortable grip and control.
- **Depth Adjustment Mechanism:** Allows precise control over routing depth.
- **Spindle Lock:** Engages to hold the spindle for easy bit changes.
- **Collet:** Secures the router bit in place.
- **Base Plate:** Provides a stable surface for routing.
- **Variable Speed Control:** Adjusts the rotation speed for different materials and applications.



Figure 2: The milling machine shown with its parallel guide accessory.

4. SETUP

4.1 Installing a Router Bit

1. Ensure the tool is unplugged from the power source.
2. Press and hold the spindle lock button.
3. Insert the shank of the router bit into the collet. Ensure it is inserted as far as it will go, then pull it out slightly (about 1/8 inch or 3mm) to prevent bottoming out.
4. Tighten the collet nut firmly with the provided wrench. Release the spindle lock.

4.2 Adjusting Routing Depth

1. Place the router on a flat surface with the bit touching the surface.
2. Loosen the depth adjustment clamp.

3. Lower the motor housing until the bit reaches the desired depth, using the depth scale for reference.
4. Tighten the depth adjustment clamp securely.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

- To turn on, press the ON/OFF switch.
- To turn off, release the ON/OFF switch.

5.2 Variable Speed Control

The variable speed dial allows you to adjust the rotation speed of the router bit. Higher speeds are generally used for smaller bits and softer materials, while lower speeds are suitable for larger bits and harder materials. Adjust the speed to avoid overburning the workpiece.

5.3 Routing Techniques

Always make sure the workpiece is stable and clamped before beginning any routing operation.

- **Edge Routing:** For shaping edges, use the parallel guide or a bearing-guided bit. Maintain steady pressure and a consistent feed rate.
- **Circular Cuts:** Use the provided circular cutting attachment for precise circular grooves or cutouts.
- **Dadoes and Grooves:** For straight grooves, use a straight edge guide or the parallel guide.



Figure 3: Demonstrating the milling machine in use for circular routing.



Figure 4: Demonstrating the milling machine in use for straight edge routing.

6. MAINTENANCE

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

- **Cleaning:** After each use, unplug the tool and clean off dust and debris from the ventilation openings and around the collet area using a soft brush or compressed air.
- **Bit Care:** Keep router bits sharp and clean. Dull bits can cause overheating and poor cuts.
- **Storage:** Store the tool in its original case in a dry, secure place, out of reach of children.
- **Cord Inspection:** Regularly inspect the power cord for any damage. Do not use the tool if the cord is damaged.

7. TROUBLESHOOTING

If you encounter issues with your milling machine, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Tool does not start	No power supply; Faulty switch	Check power connection; Contact service center
Excessive vibration	Dull or damaged bit; Loose bit; Bent shaft	Replace or sharpen bit; Re-tighten bit; Contact service center
Poor cut quality / Burning wood	Dull bit; Incorrect speed; Too fast feed rate	Replace or sharpen bit; Adjust speed; Reduce feed rate

8. SPECIFICATIONS

Key technical specifications for the BLACK+DECKER KW1200EKA-QS Milling Machine:

Specification	Value
Brand	BLACK+DECKER
Model Number	KW1200EKA-QS
Power Source	Corded Electric
Wattage	1200 Watts
Voltage	230 Volts
Maximum Rotational Speed	30000 RPM
Item Weight	6.5 Kilograms (14.3 pounds)
Product Dimensions	7.68 x 14.76 x 36.61 inches
Material	Metal
Base Type	Fixed

9. WARRANTY AND SUPPORT

BLACK+DECKER products are manufactured to high-quality standards and are guaranteed for professional use. For warranty information, service, or technical support, please refer to the official BLACK+DECKER website or contact their customer service department.

You can visit the official BLACK+DECKER store for more information and support: [BLACK+DECKER Store](#)