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kwb 777800

kwb 777800 Professional Drill Stand Instruction Manual

Model: 777800

1. Introduction

Thank you for choosing the kwb 777800 Professional Drill Stand. This manual provides essential information for the safe and effective assembly, operation, and maintenance of your drill stand. Designed for precision, this stand is compatible with standard drills featuring a 43 mm Euro-Neck, enabling accurate drilling and milling in various materials.

2. Safety Instructions

Always observe the following safety precautions to prevent injury and damage to the tool:

- Read and understand all instructions before operating the drill stand.
- Wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and gloves.
- Ensure the drill stand is securely mounted on a stable, level workbench.
- Always disconnect the power drill from the power supply before making any adjustments, changing drill bits, or performing maintenance.
- Keep the work area clean and well-lit. Cluttered areas invite accidents.
- Secure your workpiece firmly using clamps or a machine vice to prevent movement during drilling.
- Do not force the drill. Allow the drill to work at its intended speed and feed rate.
- Keep hands and fingers away from the rotating drill bit.
- Do not operate the drill stand if any parts are damaged or missing.

3. Package Contents

Verify that all components are present upon unpacking:

- kwb 777800 Drill Stand Base Plate
- Vertical Column
- Drill Holder Assembly (with return spring, depth stop, and mm-scale)
- Operating Handle
- Fasteners and small parts for assembly

4. Product Overview

The kwb 777800 Professional Drill Stand provides a stable platform for precise drilling operations. Key components include a robust cast iron base, a vertical column, and an adjustable drill holder.

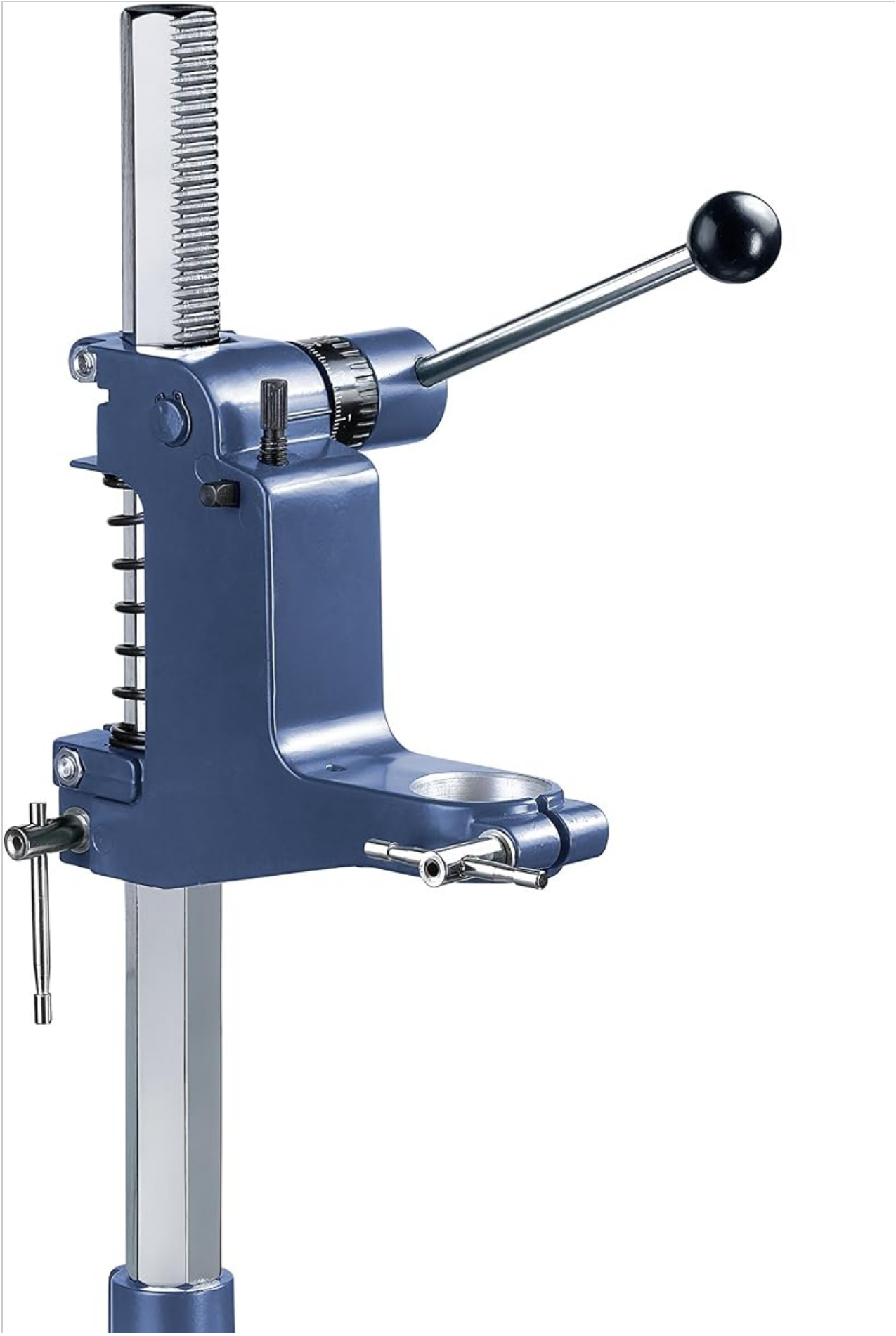




Figure 1: Overview of the kwb 777800 Professional Drill Stand. This image displays the complete drill stand assembly, including the cast iron base, vertical column, drill holder, and operating handle.

5. Setup

Follow these steps to assemble and prepare your drill stand for use:

1. **Mount the Column:** Securely attach the vertical column to the cast iron base plate using the provided fasteners. Ensure it is tightened firmly to prevent any wobble.
2. **Install the Drill Holder:** Slide the drill holder assembly onto the vertical column. The holder features a 43 mm Euro-Neck opening designed to accommodate most standard drills.
3. **Insert Your Drill:** Open the drill holder clamp and insert your power drill, ensuring the Euro-Neck collar of the drill fits snugly into the holder. Tighten the clamp securely to prevent the drill from rotating or slipping during operation.
4. **Attach Operating Handle:** Screw the operating handle into the designated slot on the drill holder assembly.
5. **Secure to Workbench:** For maximum stability, it is recommended to bolt or clamp the drill stand base plate to a sturdy workbench. The base plate includes mounting slots for this purpose.



Figure 2: The kwb 777800 Drill Stand in operation with a power drill and a workpiece secured by a machine vice. This illustrates the proper setup for drilling.

6. Operating Instructions

Once assembled, follow these steps for precise drilling and milling:

1. **Adjust Height:** Loosen the locking mechanism on the drill holder and slide the entire assembly up or down the vertical column to the desired height. Retighten the lock.
2. **Position Workpiece:** Place your workpiece on the cast iron base plate. Use a machine vice (not supplied, Art. No. 7770-68, 80 mm recommended) or clamps to firmly secure the workpiece.
3. **Set Depth Stop:** The drill stand features an adjustable depth stop. Lower the drill bit until it just touches the workpiece at the desired drilling point. Adjust the depth stop collar to the required depth and lock it in place. This ensures consistent drilling depth.
4. **Rotate Column (Optional):** The 6-square column can be continuously rotated 360° if needed for specific angles or workpiece positioning. Loosen the column lock, rotate, and re-tighten.
5. **Drilling:**
    - Ensure the drill bit is appropriate for the material.
    - Turn on your power drill.
    - Slowly and steadily lower the drill holder using the operating handle, applying even pressure.
    - Once the desired depth is reached (indicated by the depth stop), retract the drill bit from the workpiece.
    - Turn off the power drill.

7. Maintenance

Regular maintenance ensures the longevity and performance of your drill stand:

- **Cleaning:** After each use, clean the drill stand to remove dust, chips, and debris. Use a brush or compressed air. Avoid using solvents that may damage painted surfaces.
- **Lubrication:** Periodically apply a light machine oil to the vertical column and moving parts of the drill holder assembly to ensure smooth operation.
- **Inspection:** Regularly inspect all fasteners for tightness. Check for any signs of wear, damage, or misalignment. Replace worn or damaged parts immediately.
- **Storage:** Store the drill stand in a dry, clean environment when not in use.

8. Troubleshooting

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Inaccurate drilling / Drill bit wobbles	Loose drill in holder; Loose drill stand; Worn drill bit; Column not perpendicular.	Ensure drill is tightly clamped in the holder. Securely mount the drill stand to the workbench. Replace worn drill bits. Check column alignment and tighten all fasteners.
Drill holder movement is stiff	Lack of lubrication; Debris on column.	Clean the vertical column and apply light machine oil.
Depth stop not holding position	Depth stop collar is loose or damaged.	Tighten the depth stop collar. If damaged, contact customer support for replacement parts.

Problem	Possible Cause	Solution
Workpiece moves during drilling	Workpiece not properly secured.	Always use a machine vice or clamps to firmly secure the workpiece to the base plate.

9. Specifications

- **Model:** kwb 777800
- **Compatibility:** Drills with Ø 43 mm Euro-Neck
- **Base Plate Dimensions:** 175 x 210 mm (cast iron)
- **Total Height:** 500 mm
- **Column Diameter:** 34 mm
- **Column Rotation:** 360° continuous
- **Projection (Throat Depth):** 130 mm
- **Features:** Return spring, depth stop, mm-scale, mounting slots for machine vice
- **Material:** Cast iron (base), Metal (column, holder)
- **Item Weight:** Approximately 1 kg (2.2 pounds)
- **Product Dimensions:** 20.28"L x 9.45"W x 5.51"H

10. Warranty and Support

For warranty information or technical support, please refer to the documentation provided with your purchase or contact kwb customer service directly. Keep your proof of purchase for any warranty claims.
Manufacturer: kwb

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