

kwb 706316

kwb AKKU-TOP Forstner Speed Drill Bit, Ø 16 mm, Model 706316 Instruction Manual

Brand: kwb | Model: 706316

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1. INTRODUCTION

Thank you for choosing the kwb AKKU-TOP Forstner Speed Drill Bit, Ø 16 mm, Model 706316. This high-quality drill bit is designed for efficient and precise drilling in various wood materials. This manual provides essential information for the safe and effective use, maintenance, and care of your new tool. Please read these instructions carefully before use and keep them for future reference.

2. SAFETY INSTRUCTIONS

Always follow basic safety precautions when using power tools and accessories to reduce the risk of injury.

- **Wear appropriate personal protective equipment (PPE):** Always wear safety glasses, hearing protection, and gloves.
- **Secure the workpiece:** Ensure the material you are drilling is firmly clamped or secured to prevent movement during operation.
- **Use the correct drill bit for the material:** This Forstner bit is specifically designed for wood and wood-based materials. Do not use it on metal, masonry, or other unsuitable materials.
- **Check the drill bit condition:** Before each use, inspect the drill bit for any signs of damage, dullness, or wear. A damaged or dull bit can cause kickback or poor performance.
- **Ensure proper installation:** Securely fasten the drill bit in the chuck of your drilling machine. Ensure it is centered and tightened to prevent slippage.
- **Maintain a firm grip:** Always hold the power tool firmly with both hands if applicable, or ensure the workpiece is stable when using a drill press.

- **Keep work area clear:** Remove any loose objects, debris, or obstructions from your work area.
- **Avoid overheating:** Apply steady, moderate pressure. Excessive pressure can cause the bit to overheat, dull prematurely, or break. Allow the bit to cool if it becomes hot.
- **Disconnect power:** Always disconnect the power tool from the power source before changing drill bits, making adjustments, or performing maintenance.

3. PRODUCT OVERVIEW

The kwb AKKU-TOP Forstner Speed Drill Bit is engineered for high performance and durability in woodworking applications.

Key Features:

- **Optimized for Cordless Tools:** Designed for efficient use with battery-powered screwdrivers and drilling machines, offering 45% faster drilling and 45% energy savings.
- **High-Quality Material:** Manufactured from special hardened and tempered steel for enhanced strength and longevity.
- **Patented Precision Teeth:** Features a patented precision tooth design that allows for 45% faster drilling compared to conventional Forstner bits.
- **Tear-Free Drilling:** Engineered to produce clean, tear-free holes in various wood types.
- **Versatile Application:** Suitable for drilling in all types of wood, coated chipboard, MDF panels, carved wood, and battens.
- **Extended Service Life:** Provides a 3x longer service life due to reduced sliding friction and lower heat generation during operation.
- **3-Stage Chamfer Shank:** The 16 mm diameter bit features a 3-stage chamfered shank, ensuring compatibility with 10 mm or 13 mm chucks found on most drilling machines.





Figure 1: kwb AKKU-TOP Forstner Speed Drill Bit, Ø 16 mm, in its retail packaging.





Figure 2: The kwb AKKU-TOP Forstner Speed Drill Bit, Ø 16 mm, shown outside its packaging with a protective stand.

4. SETUP

1. **Select the Right Tool:** This Forstner bit is designed for use with cordless screwdrivers and drilling machines equipped with 10 mm or 13 mm chucks. Ensure your power tool is compatible and in good working condition.
2. **Prepare the Workpiece:** Securely clamp or fasten your wood workpiece to a stable surface. This prevents movement during drilling and ensures accuracy and safety.
3. **Install the Drill Bit:**
 - Ensure your power tool is unplugged or its battery is removed.
 - Open the chuck of your drilling machine.
 - Insert the shank of the kwb AKKU-TOP Forstner Speed Drill Bit into the chuck. The 3-stage chamfered shank ensures a secure grip.
 - Tighten the chuck firmly, ensuring the drill bit is centered and held securely. A loose bit can wobble and cause damage or injury.
4. **Adjust Drill Speed:** For optimal performance and to prevent overheating, set your drilling machine to an appropriate speed for wood drilling. Generally, slower speeds are recommended for larger diameter bits and harder woods.

5. OPERATING INSTRUCTIONS

Follow these steps for effective and safe drilling with your kwb AKKU-TOP Forstner Speed Drill Bit.

1. **Mark the Drilling Location:** Clearly mark the center point of your desired hole on the workpiece.
2. **Start Drilling:**
 - Position the center point of the Forstner bit directly over your marked location.
 - Start the drilling machine at a low speed to allow the bit to engage the wood accurately.
 - Gradually increase the speed to the recommended setting for wood.
3. **Apply Steady Pressure:** Apply steady, moderate pressure to allow the bit to cut efficiently. Avoid excessive force, which can lead to overheating, splintering, or damage to the bit or workpiece. The patented precision teeth and design ensure 45% faster drilling with less effort.
4. **Clear Chips:** The design of the Forstner bit helps in chip evacuation. For deeper holes, occasionally withdraw the bit slightly to clear chips and allow the bit to cool.
5. **Complete the Hole:** Continue drilling until the desired depth is reached. The bit is designed for tear-free drilling in various wood types, including coated chipboard, MDF, and battens.
6. **Withdraw the Bit:** Once the hole is complete, slowly withdraw the drill bit from the workpiece while the drill is still rotating.



Figure 3: The kwb AKKU-TOP Forstner Speed Drill Bit in action, creating a clean hole in a wooden board.



Figure 4: Example application: using the Forstner bit to create a hole for cable management in a desk.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your drill bit.

- **Cleaning:** After each use, clean the drill bit to remove wood chips, resin, and dust. Use a brush or compressed air. Avoid using harsh chemicals that could damage the steel.
- **Inspection:** Regularly inspect the cutting edges for sharpness and any signs of damage. A dull bit will require more force and generate more heat, reducing its efficiency and lifespan.
- **Sharpening:** If the bit becomes dull, it can be professionally sharpened. Attempting to sharpen it yourself without proper tools and expertise may damage the precision cutting edges.
- **Storage:** Store the drill bit in a dry place to prevent rust. Use the original packaging or a drill bit case to protect the cutting edges from damage.
- **Lubrication (Optional):** For very hard woods or prolonged drilling, a small amount of cutting lubricant designed for wood can help reduce friction and heat, extending the bit's life.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Poor cut quality / Splintering	Dull drill bit, incorrect drill speed, workpiece not secured, excessive feed pressure.	Inspect and sharpen/replace bit. Adjust drill speed. Secure workpiece firmly. Reduce feed pressure.
Drill bit overheating	Excessive feed pressure, too high drill speed, dull bit, insufficient chip evacuation.	Reduce feed pressure. Lower drill speed. Sharpen/replace bit. Clear chips frequently.
Drill bit wobbles	Bit not properly secured in chuck, damaged shank, bent bit.	Re-tighten chuck. Inspect bit for damage; replace if bent or damaged.
Slow drilling progress	Dull drill bit, too low drill speed, insufficient pressure.	Sharpen/replace bit. Increase drill speed (within safe limits). Apply moderate, steady pressure.

8. SPECIFICATIONS

Brand	kwb
Model Number	706316
Cutting Diameter	16 mm
Material	Special Hardened Steel Alloy
Shank Type	3-stage Chamfered (compatible with 10mm/13mm chucks)
Product Dimensions (LxWxH)	4.2 x 4.2 x 13 cm (approximate, for the bit itself)
Item Weight	75 g
Measurement System	Metric
Recommended Use	Wood, coated chipboard, MDF panels, carved wood, battens
Power Source Compatibility	Cordless screwdrivers and drilling machines

9. WARRANTY AND SUPPORT

kwb products are manufactured to high-quality standards. For specific warranty information, please refer to the documentation included with your purchase or visit the official kwb website. General wear and tear of drill bits are not typically covered under warranty.

Customer Support:

If you have any questions regarding the use, maintenance, or performance of your kwb AKKU-TOP Forstner Speed Drill Bit, please contact kwb customer support through their official website or the retailer where the product was purchased. Please have your model number (706316) and purchase details ready when contacting support. For more information about kwb products, you can visit the [kwb Brand Store on Amazon](#).



