

## Fein KBB 60

# Fein KBB60 60mm Metal Core Drilling Unit Instruction Manual

Model: KBB 60

## INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient operation, setup, maintenance, and troubleshooting of your Fein KBB60 60mm Metal Core Drilling Unit. Please read this manual thoroughly before using the device to ensure proper handling and to prevent injury or damage.

The Fein KBB60 is a robust and powerful metal core drilling unit designed for professional use, featuring a 1400 Watt motor, two-speed gearbox, and a strong magnetic holding power of 11000 Newton for secure attachment to ferromagnetic materials.

## SAFETY INSTRUCTIONS

Always wear appropriate personal protective equipment (PPE) including safety glasses, hearing protection, and gloves when operating the drilling unit. Ensure the workpiece is securely clamped and the magnetic base has full contact with a clean, flat, ferromagnetic surface before starting. Disconnect power before performing any maintenance or changing accessories.

- Ensure the power supply matches the voltage specified on the tool's nameplate.
- Keep the 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.
- Keep children and bystanders away while operating a power tool.
- Avoid accidental starting. Ensure the switch is in the off-position before plugging in.
- Use the correct tool for your application. Do not force the tool.
- Maintain tools with care. Keep cutting tools sharp and clean.
- Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation.

## PACKAGE CONTENTS

Upon unpacking, verify that all components listed below are present and undamaged:

- 1 x Fein KBB60 Metal Core Drilling Unit

- 1 x Carry Case
- 1 x Coolant Tank
- 1 x Lashing Strap
- 1 x Swarf Hook
- 2 x Centering Pins
- 1 x Contact Guard
- 1 x Socket Head Wrench 5mm
- 1 x Carry Handle



Figure 1: Fein KBB60 drilling unit and its complete set of accessories, including the carry case, coolant tank, lashing strap, swarf hook, centering pins, contact guard, socket head wrench, and carry handle.

## SETUP

1. **Attaching the Carry Handle:** Secure the extra carry handle to the designated mounting points on the unit for easier transport.
2. **Mounting the Coolant Tank:** Attach the integrated coolant tank to the unit. Ensure it is securely fastened and fill it with appropriate cutting fluid.
3. **Installing the Core Drill Bit:**
  - Ensure the unit is unplugged.
  - Insert the centering pin into the core drill bit.

- Insert the core drill bit with the centering pin into the Weldon holder.
  - Tighten the set screws on the Weldon holder firmly using the provided 5mm socket head wrench to secure the drill bit.
4. **Positioning the Unit:** Place the magnetic foot on a clean, flat, ferromagnetic surface. Ensure full contact for maximum magnetic holding power (11000 Newton). Activate the magnetic base switch.
  5. **Connecting Power:** Plug the 3.8-meter power cable into a suitable power outlet.



Figure 2: The Fein KBB60 drilling unit prepared for use, showing the magnetic base, drill bit, and control handles.

## OPERATING INSTRUCTIONS

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1. **Selecting Speed:** The unit features a mechanical 2-speed gearbox. Select the appropriate speed (330 rpm for 1st gear, 660 rpm for 2nd gear) based on the material and drill bit diameter. Lower speeds are generally for larger diameters and harder materials.
2. **Activating the Magnet:** Ensure the magnetic base is firmly engaged with the workpiece before starting the motor. The magnetic holding power is 11000 Newton.
3. **Starting the Motor:** Turn on the motor using the power switch. Allow the motor to reach full speed before engaging the drill bit with the workpiece.
4. **Drilling:** Use the feed hand wheel to slowly lower the drill bit into the workpiece. Apply steady, even pressure. The feed hand wheel can be moved from one side to the other for user convenience.
5. **Coolant Flow:** Ensure the coolant system is active and providing sufficient lubrication and cooling to the drill bit during operation, especially for deep holes or hard materials.
6. **Monitoring Drilling Depth:** The extra-long drill shaft allows for a cutting depth of up to 75mm. Monitor the depth to avoid over-drilling.
7. **Stopping Operation:** Once the drilling is complete, retract the drill bit from the workpiece using the feed hand wheel, then turn off the motor. Finally, deactivate the magnetic base.

## MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your Fein KBB60 drilling unit.

- **Cleaning:** After each use, clean the unit, especially the magnetic base and the drill bit holder, to remove metal chips and dust. Use the provided swarf hook to clear debris.

- **Coolant System:** Regularly check the coolant tank for fluid level and refill as needed. Clean the coolant lines and nozzles to prevent blockages.
- **Magnetic Base:** Keep the magnetic foot clean and free of debris to ensure maximum holding power. Any foreign material can reduce the magnetic force.
- **Cables and Connections:** Inspect the power cable and all connections for signs of wear, cuts, or damage. Replace damaged cables immediately. The motor wiring is concealed for protection.
- **Drill Bit Holder:** Ensure the Weldon holder is clean and the set screws are in good condition. Replace if worn or damaged.
- **Storage:** Store the unit in its carry case in a dry, secure location when not in use.

## TROUBLESHOOTING

| Problem   | Possible Cause  | Solution   |
|---|---|--|
| Unit does not power on.                           | No power supply; faulty cable; internal electrical issue.                                       | Check power outlet and cable connection. Inspect cable for damage. If problem persists, contact service. |
| Magnetic base not holding securely.               | Dirty or uneven workpiece surface; non-ferromagnetic material; insufficient material thickness. | Clean the workpiece surface. Ensure it's ferromagnetic and thick enough. Check magnetic base for damage. |
| Drill bit not cutting efficiently or overheating. | Dull drill bit; insufficient coolant; incorrect speed setting; excessive feed pressure.         | Replace or sharpen drill bit. Check coolant level and flow. Adjust speed and feed pressure.              |
| Excessive vibration or noise.                     | Loose drill bit; worn bearings; damaged motor.  | Ensure drill bit is securely tightened. If noise persists, contact qualified service personnel.          |

## SPECIFICATIONS

| Feature                          | Detail     |
|----------------------------------|------------|
| Model                            | KBB 60     |
| Input Power                      | 1400 Watts |
| Output Power                     | 770 Watts  |
| 1st Gear Speed                   | 330 rpm    |
| 2nd Gear Speed                   | 660 rpm    |
| Max. Carbide Core Drill Diameter | 60 mm      |
| Max. HSS Core Drill Diameter     | 60 mm      |
| Max. Core Drill Drilling Depth   | 75 mm      |
| Core Drill Holder                | Weldon     |
| Stroke                           | 92 mm      |

| Feature                  | Detail       |
|--------------------------|--------------|
| Magnetic Holding Power   | 11000 Newton |
| Cable Length             | 3.8 metre    |
| Weight                   | 23.9 kg      |
| Magnetic Foot Dimensions | 191 x 102 mm |
| Power Source             | Corded       |
| Material                 | Metal        |

## WARRANTY

The Fein KBB60 60mm Metal Core Drilling Unit comes with a**6-month warranty** on the product from the date of purchase. This warranty covers manufacturing defects and material faults under normal use. Please retain your purchase receipt as proof of purchase for warranty claims. The warranty does not cover damage caused by misuse, neglect, unauthorized repairs, or normal wear and tear.

## CUSTOMER SUPPORT

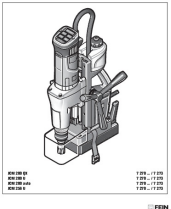
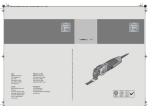
For technical assistance, spare parts, or warranty claims, please contact your authorized Fein dealer or the manufacturer's customer service. When contacting support, please have your product model number (KBB 60) and serial number (if applicable) ready.

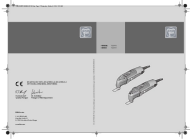
For more information, you may visit the official Fein website or consult your local distributor.



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## Related Documents - KBB 60

|   |   |
|---|---|
|  | <p><a href="#">FEIN Slugger JCM 200 Series Magnetic Drilling Units Instruction Manual</a></p> <p>Comprehensive instruction manual for FEIN Slugger JCM 200 QX, JCM 200 U, JCM 200 auto, and JCM 256 U magnetic drilling units. Covers safety, operation, maintenance, and technical specifications.</p> |
|  | <p><a href="#">FEIN FSC500QSL Oscillating Tool Instruction Manual</a></p> <p>Comprehensive guide to the FEIN FSC500QSL oscillating tool, covering safety, operation, assembly, and maintenance. Learn how to use your FEIN power tool effectively and safely.</p>                                       |



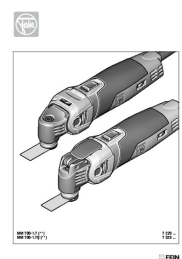
### [FEIN FMT250/FMT250Q Multi-Cutter: User Manual and Safety Instructions](#)

Comprehensive guide to the FEIN FMT250 and FMT250Q multi-cutters, covering operation, safety precautions, technical specifications, and maintenance. Learn how to use these versatile power tools for sanding, sawing, scraping, and more.



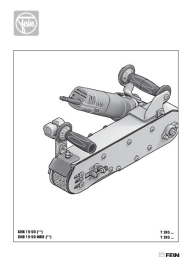
### [FEIN ASCD18 Serie Akku-Schlagschrauber Bedienungsanleitung](#)

Umfassende Bedienungsanleitung für FEIN ASCD18 Serie Akku-Schlagschrauber (ASCD18-200W4 AS, ASCD18-300W2 AS, ASCD18-1000W34 AS) mit technischen Daten, Sicherheitshinweisen und Bedienungsanleitungen.



### [FEIN MM 700-1.7 / MM 700-1.70 Oszillierwerkzeug Bedienungsanleitung | Sicherheit & Technische Daten](#)

Entdecken Sie die Bedienungsanleitung und technischen Spezifikationen für das FEIN MM 700-1.7 und MM 700-1.70 Oszillierwerkzeug. Erfahren Sie mehr über sichere Anwendung, Wartung und Leistung.



### [FEIN GHB 15-50 & GHB 15-50 INOX Bandschleifer Bedienungsanleitung](#)

Umfassende Bedienungsanleitung für die FEIN GHB 15-50 und GHB 15-50 INOX Bandschleifer. Enthält Sicherheitshinweise, Bedienungsanleitungen, technische Daten und Wartungsinformationen.