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## Mannesmann M54336

# Mannesmann M54336 36-Piece Bit and Drill Set Instruction Manual

## 1. INTRODUCTION

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This manual provides essential information for the safe and effective use of your Mannesmann M54336 36-Piece Bit and Drill Set. Please read these instructions carefully before using the product and retain them for future reference. This set is designed for drilling into wood, plastic, and metal, and for driving screws with various bit types.

The set includes a comprehensive assortment of drill bits and screwdriver bits, housed in a robust plastic case for organization and protection.



Image 1: The Mannesmann M54336 36-piece bit and drill set, displayed within its robust plastic storage case. The case

features a clear viewing pane, allowing visibility of the organized contents.

## 2. SET COMPONENTS

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The Mannesmann M54336 set contains the following components:

- **10 x 25 mm Screwdriver Bits:** Assorted types for various screw heads.
- **1 x Bit Holder:** For use with the 25 mm screwdriver bits.
- **6 x Sockets:** Sizes ranging from 7 mm to 13 mm.
- **7 x HSS Drill Bits:** Designed for drilling into metal and plastic.
- **5 x Masonry Drill Bits:** For drilling into stone and concrete.
- **6 x Wood Drill Bits:** For drilling into various types of wood.
- **1 x Countersink:** For creating conical holes to recess screw heads.
- **1 x Robust Plastic Case:** For storage and organization.

## 3. SETUP AND PREPARATION

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Before beginning any work, ensure you have the correct bit or drill for the task and material. Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and hearing protection if necessary.

### 3.1 Selecting the Correct Bit/Drill

- **HSS Drill Bits:** Use for drilling into metal and plastic.
- **Masonry Drill Bits:** Use for drilling into brick, concrete, and stone.
- **Wood Drill Bits:** Use for drilling into wood.
- **Screwdriver Bits:** Match the bit type (e.g., Phillips, flathead, Torx) and size to the screw head.
- **Sockets:** Select the correct size for the bolt or nut.

### 3.2 Inserting Bits/Drills

1. Ensure your power tool (drill/driver) is unplugged or has its battery removed before changing bits.
2. Open the chuck of your power tool.
3. Insert the shank of the chosen drill bit or the bit holder with a screwdriver bit firmly into the chuck.
4. Tighten the chuck securely to prevent the bit from slipping during operation.

## 4. OPERATING INSTRUCTIONS

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Always follow the safety guidelines provided with your power tool. Ensure the workpiece is securely clamped or held to prevent movement during drilling or driving.

### 4.1 Drilling

- Mark the drilling location accurately.
- Start drilling at a low speed to create a pilot hole or to prevent the drill bit from wandering.
- Gradually increase speed as the drill bit penetrates the material.
- Apply steady, even pressure. Avoid excessive force, which can cause the bit to overheat or break.
- For metal drilling, use cutting fluid to cool the bit and improve performance.
- Clear chips regularly, especially when drilling deep holes.

## 4.2 Driving Screws

- Select the correct screwdriver bit for the screw head.
- Insert the bit into the bit holder, then into the power tool's chuck.
- Position the screw on the workpiece and align the bit with the screw head.
- Apply firm, steady pressure to prevent cam-out (the bit slipping out of the screw head).
- Start driving at a low speed and increase as needed.
- Stop driving when the screw is flush with the surface or at the desired depth.

## 5. MAINTENANCE AND STORAGE

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Proper maintenance and storage will extend the life of your bit and drill set.

- **Cleaning:** After each use, clean bits and drills to remove dust, debris, and metal shavings. A wire brush or cloth can be used.
- **Lubrication:** For HSS drill bits, a light coating of oil can prevent rust, especially after use in metal.
- **Inspection:** Regularly inspect bits and drills for signs of wear, damage, or dullness. Replace worn or damaged components to ensure optimal performance and safety.
- **Storage:** Always store the set in its original robust plastic case. This protects the bits from damage and keeps them organized, preventing loss. Store in a dry environment to prevent corrosion.

## 6. TROUBLESHOOTING

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If you encounter issues during use, consider the following common troubleshooting tips:

- **Bit/Drill Overheating:** Reduce drilling speed, apply less pressure, or use cutting fluid (for metal). Ensure chips are being cleared effectively.
- **Poor Drilling Performance:** The bit may be dull or incorrect for the material. Ensure the bit is securely tightened in the chuck.
- **Bit Breakage:** This can be caused by excessive side pressure, incorrect speed, or a dull bit. Ensure the workpiece is stable.
- **Screwdriver Bit Cam-out:** Ensure the correct bit size and type are used. Apply firm, consistent pressure directly in line with the screw.

## 7. SPECIFICATIONS

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Feature	Specification
Model	M54336
Material	High Speed Steel (HSS) for HSS bits
Finish Type	HSS
Shank Type	Round
Item Dimensions (L x W x H)	6.3 x 2.05 x 7.09 inches (16 x 5.2 x 18 cm)
Surface Recommendation	Wood, Plastic, Metal
Tool Flute Type	Straight

Feature	Specification
Item Weight	0.62 Kilograms
Unit Count	1.0 Count (36-piece set)
Included Components	36-piece bit and drill set

## 8. WARRANTY AND SUPPORT

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The manufacturer, Brüder Mannesmann Werkzeuge, provides a 1-year EU spare part availability duration for this product. For specific warranty claims or technical support, please refer to the contact information provided with your purchase or visit the official Mannesmann website.

Always ensure you are using genuine Mannesmann replacement parts if any components of the set need to be replaced.