

BOSCH RBS015MBS

BOSCH RBS015MBS 15-Piece Carbide-Tipped Wood Router Bit Set

INSTRUCTION MANUAL

1. Introduction

This manual provides essential information for the safe and effective use of your BOSCH RBS015MBS 15-Piece Carbide-Tipped Wood Router Bit Assorted Set. This set is designed for precision and durability in various woodworking applications, suitable for processing soft and hard wood as well as wood composites. Please read these instructions carefully before use and retain them for future reference.

2. Product Overview

The BOSCH RBS015MBS set includes 15 carbide-tipped router bits, each engineered for specific woodworking tasks. The bits are organized in a durable plastic storage case for convenience and protection.

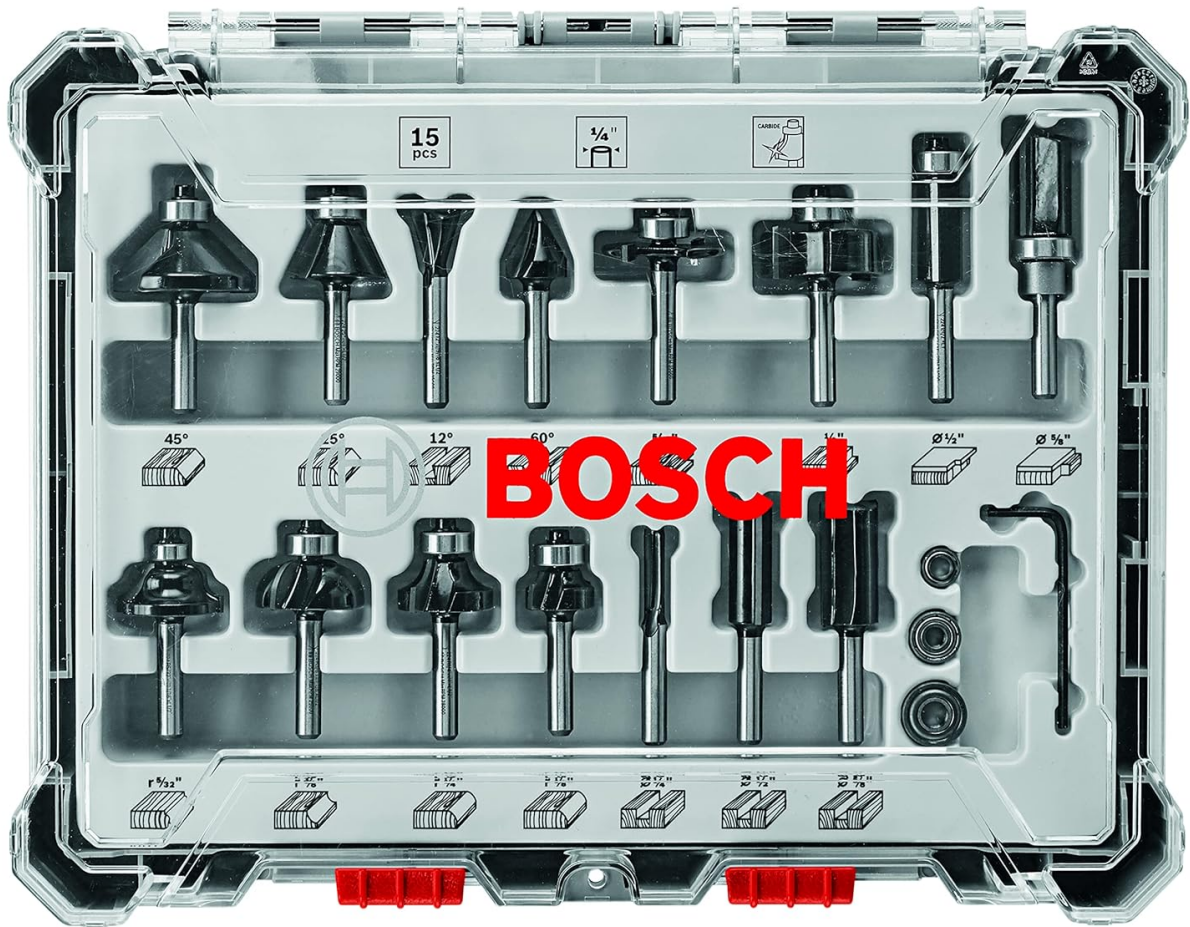


Image 2.1: The BOSCH RBS015MBS 15-piece router bit set securely stored in its clear plastic case.



Image 2.2: All 15 carbide-tipped router bits from the BOSCH RBS015MBS set, showcasing their various profiles and sizes.

The set includes the following bit types and sizes:

- **Chamfer Bits:** 1-3/8" x 45°, 1" x 25°
- **Dovetail Bit:** 12° x 9/16"
- **V-Groove Bit:** 60° x 5/8"
- **Two-Wing Slotting Cutter:** 5/32"
- **Rabbeting Bit:** 1/4" x 1/2"
- **Top Bearing Straight Trim Bit:** 1/2" x 1"
- **Double Flute Flush Laminate Trim Bit:** 5/8" x 1"
- **Roman Ogee Bit:** 5/32" x 1/2"
- **Cove Bit:** 3/8" x 1/2"
- **Roundover Bits:** 1/4" x 1/2", 1/8" x 3/8"
- **Double-Flute Straight Bits:** 1/4" x 25/32", 1/2" x 1-3/16", 5/8" x 1-3/16"

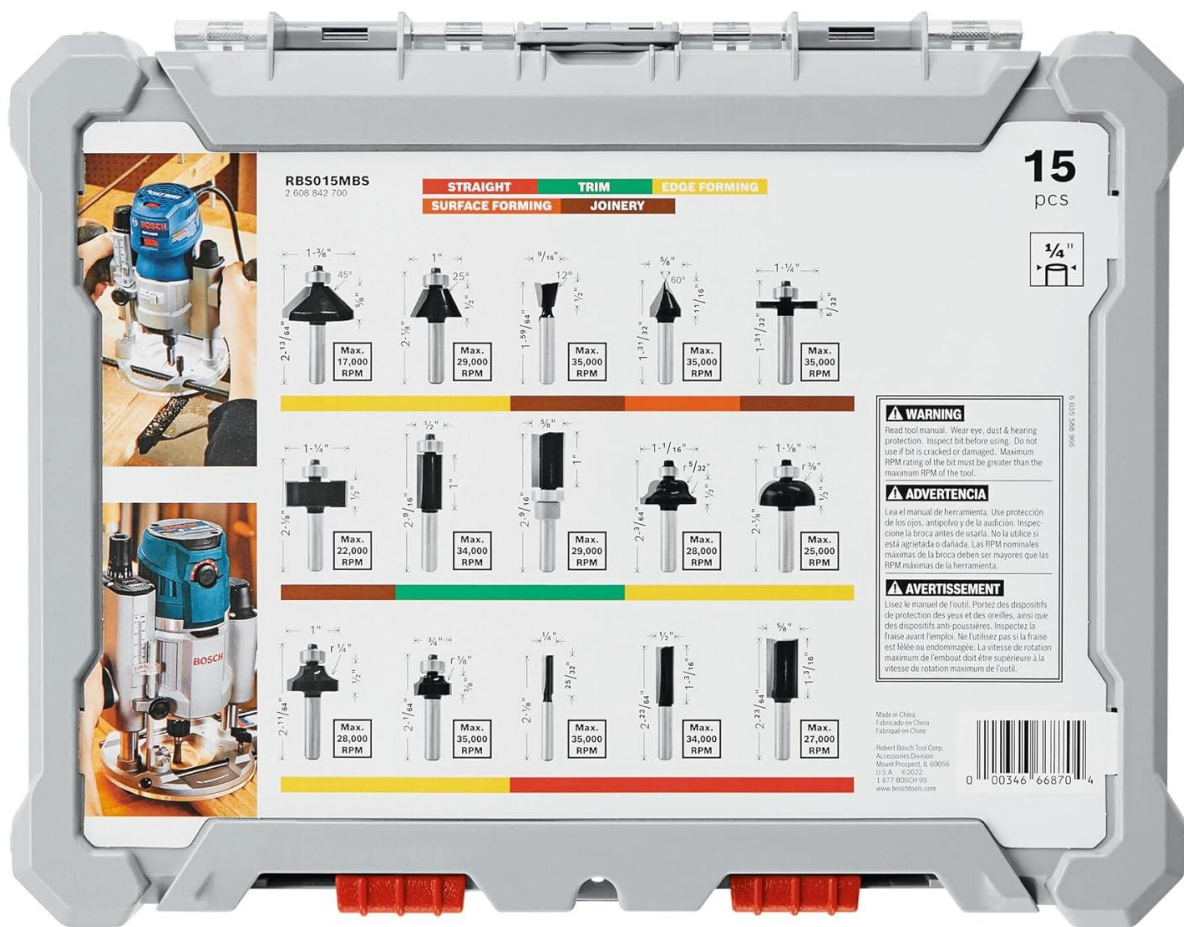


Image 2.3: The reverse side of the storage case provides a visual guide to each bit's profile, dimensions, and recommended maximum RPM for different applications (straight, trim, edge forming, joinery).

3. Safety Information

Always prioritize safety when working with power tools. Failure to follow these safety guidelines may result in serious injury.

- **Eye Protection:** Always wear approved safety glasses or goggles to protect against flying debris.
- **Hearing Protection:** Use hearing protection, as routers can generate high noise levels.
- **Respiratory Protection:** Wear a dust mask, especially when routing wood, to avoid inhaling fine dust particles.
- **Proper Attire:** Avoid loose clothing, jewelry, and long hair that can get caught in moving parts.
- **Secure Workpiece:** Always clamp your workpiece securely to prevent movement during routing.
- **Router Manual:** Refer to your router's instruction manual for specific safety warnings and operating procedures.
- **Bit Inspection:** Before each use, inspect router bits for damage, dullness, or cracks. Do not use damaged bits.
- **Correct RPM:** Ensure your router is set to the appropriate RPM for the bit size and material being

routed. Refer to the bit case for guidelines.

- **Bit Installation:** Ensure bits are correctly and securely installed in the router collet.

4. Setup

Proper setup is crucial for safe and accurate routing.

4.1 Installing a Router Bit

1. **Disconnect Power:** Always unplug your router from the power source before installing or changing bits.
2. **Clean Collet:** Ensure the router collet and collet nut are clean and free of debris.
3. **Insert Bit:** Insert the router bit shank into the collet. For optimal grip and to prevent shank breakage, insert the bit until it bottoms out, then pull it out approximately 1/16 to 1/8 inch (1.5 to 3 mm).
4. **Tighten Collet Nut:** Use the appropriate wrenches to securely tighten the collet nut. Do not overtighten.



Image 4.1: Proper insertion of a router bit into the collet, ensuring a secure fit.

4.2 Router Compatibility

This BOSCH router bit set features a 1/4" shank, making it universally compatible with most routers that accept 1/4" shank bits. Always verify your router's collet size before use.



Image 4.2: The 'Universal Brand Fit' symbol highlights the broad compatibility of these router bits with various router brands and models.

5. Operating Instructions

Follow these general guidelines for effective and safe operation of your router bits.

5.1 General Routing Tips

- **Direction of Cut:** Always feed the router against the rotation of the bit. This provides better control and prevents the router from running away.
- **Feed Rate:** Use a consistent and moderate feed rate. Too fast can cause burning or tear-out; too slow can also cause burning and dull the bit.
- **Multiple Passes:** For deep cuts, make several shallow passes instead of one deep pass. This reduces

strain on the bit and router, improves cut quality, and minimizes heat buildup.

- **Material Compatibility:** These bits are suitable for softwoods, hardwoods, and wood composites. Adjust feed rate and RPM based on material hardness.
- **Anti-Friction Coating:** The bits feature an anti-friction coating to minimize resin and pitch buildup, contributing to smoother cuts and longer bit life.



Image 5.1: A fixed-base router in operation, demonstrating a typical routing application on a wooden surface.

UNIVERSAL BRAND FIT

Image 5.2: A palm router being used with a template guide to create precise, decorative inlays in wood.

5.2 Specific Bit Applications

Refer to the bit profiles on the back of the storage case (Image 2.3) to identify the correct bit for your desired cut. Common applications include:

- **Straight Bits:** For dados, rabbets, grooves, and general stock removal.
- **Chamfer Bits:** To create angled edges for decorative purposes or to ease sharp corners.
- **Roundover/Cove Bits:** For creating rounded or concave edges.
- **Dovetail Bits:** For cutting dovetail joints.
- **Trim Bits (with bearing):** For flush trimming laminates or following templates.



Image 5.3: A router bit precisely shaping the edge of a wooden workpiece, demonstrating fine cut capabilities.

6. Maintenance

Proper maintenance extends the life and performance of your router bits.

- **Cleaning:** After each use, clean bits to remove resin, pitch, and sawdust buildup. Use a specialized bit cleaner or a mild solvent and a brush. Avoid abrasive cleaners.
- **Lubrication:** A light coat of dry lubricant or rust preventative can be applied to the bit body (avoiding cutting edges) for long-term storage.
- **Storage:** Store bits in their original plastic case to protect the cutting edges from damage and prevent rust. The case is designed for safe and organized storage.



Image 6.1: The router bit case is designed for easy and safe access and storage of the bits.

- **Inspection:** Regularly inspect bits for signs of wear, dullness, or damage to the carbide tips. Dull bits can cause burning, poor cuts, and excessive strain on your router.
- **Sharpening:** Carbide-tipped bits can be professionally sharpened, but this is typically not cost-effective for smaller bits. Consider replacing dull or damaged bits for optimal performance.

7. Troubleshooting

Here are solutions to common issues encountered during routing:

Problem	Possible Cause	Solution
Burning on workpiece	Dull bit, too slow feed rate, incorrect RPM, too deep cut	Replace/sharpen bit, increase feed rate, adjust RPM, make shallower passes
Rough or chipped cuts	Dull bit, too fast feed rate, incorrect direction of cut, bit vibration	Replace/sharpen bit, decrease feed rate, ensure correct feed direction, check bit installation
Excessive vibration or noise	Improperly installed bit, bent shank, damaged bit, worn router collet	Reinstall bit correctly, inspect bit for damage, replace bit if damaged, inspect/replace router collet
Bit breaking or chipping	Overtightening collet, hitting foreign object, excessive force, too deep cut	Tighten collet appropriately, inspect workpiece, reduce force, make shallower passes

8. Specifications

- **Model Number:** RBS015MBS
- **Number of Pieces:** 15
- **Shank Size:** 1/4 inch (implied from product images and common router bit standards)
- **Bit Material:** Carbide-Tipped
- **Coating:** Anti-friction coating
- **Compatibility:** Universally compatible with routers accepting 1/4" shank bits
- **Included Bits:** Chamfer, Dovetail, V-Groove, Slotting Cutter, Rabbeting, Top Bearing Straight Trim, Double Flute Flush Laminate Trim, Roman Ogee, Cove, Roundover, Double-Flute Straight bits.
- **Storage:** Durable plastic storage case

9. Warranty and Support

For information regarding warranty coverage, product support, or service, please refer to the official BOSCH website or contact BOSCH customer service directly. Keep your purchase receipt as proof of purchase. You can typically find support information at the official BOSCH website: www.boschtools.com