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VONROC MS500AC

VONROC MS500AC Radial Mitre Saw User Manual

Model: MS500AC | Brand: VONROC

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1. INTRODUCTION

This manual provides essential information for the safe and effective use of your VONROC MS500AC Radial Mitre Saw. Please read these instructions carefully before operating the machine and retain them for future reference. Proper use and maintenance will ensure optimal performance and extend the life of your tool.



Image 1.1: The VONROC MS500AC Radial Mitre Saw, showcasing its main components including the saw blade, motor housing, and base.

2. GENERAL SAFETY INSTRUCTIONS

WARNING: Read all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

2.1. Work Area Safety

- Keep 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. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2.2. Electrical Safety

- Power tool plugs must match the outlet. Never modify the plug in any way.

- Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

2.3. Personal Safety

- Always wear eye protection. Use safety glasses, goggles, or a face shield.
- Wear hearing protection. Prolonged exposure to noise can cause hearing damage.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.
- Stay alert, watch what you are doing, and use common sense when operating a power tool.

2.4. Mitre Saw Specific Safety

- Always use the correct blade for the material being cut.
- Ensure the workpiece is securely clamped before cutting.
- Never reach into the blade area when the saw is running or connected to power.
- Allow the blade to reach full speed before beginning a cut.
- Use the laser guide and LED light for improved accuracy and visibility, but always verify the cut line manually.

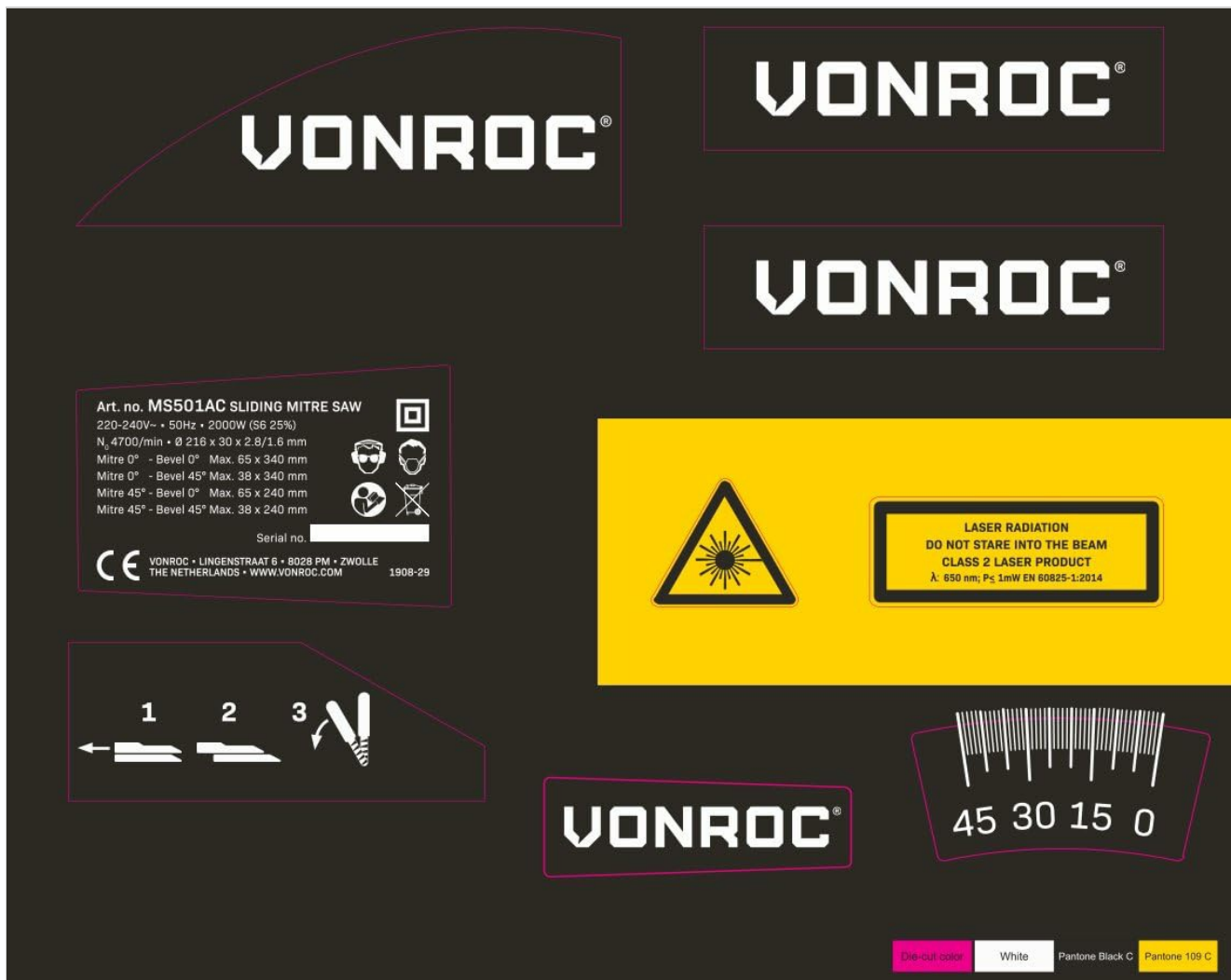


Image 2.1: Example of safety labels and warnings found on the saw, including laser radiation warnings.

3. PACKAGE CONTENTS

Carefully unpack the contents and check for any damage or missing parts. If any parts are missing or damaged, please contact VONROC customer support.

- VONROC MS500AC Radial Mitre Saw
- Saw Blade (Ø216 mm, 40-toothed)
- Dust Bag
- Allen Wrench
- Work Piece Clamp
- Bench Extensions (2 units)
- User Manual (this document)

4. PRODUCT OVERVIEW

The VONROC MS500AC is a powerful 2000W radial mitre saw designed for precise cutting of wood. It features a 216mm saw blade, integrated laser guidance, and an LED work light for enhanced accuracy and visibility.

4.1. Key Features

- **Laser Device:** Provides a clear line for controlled and straight sawing.
- **Integrated LED Light:** Illuminates the workpiece for optimal visibility, even in low-light conditions.
- **Adjustable Mounting Features:** Allows for versatile and precise adjustments for various cuts.
- **Large Saw Capacity:** Capable of cutting wood pieces up to 65 x 340 mm.
- **Powerful Motor:** 2000W motor with 4700 RPM for efficient cutting.

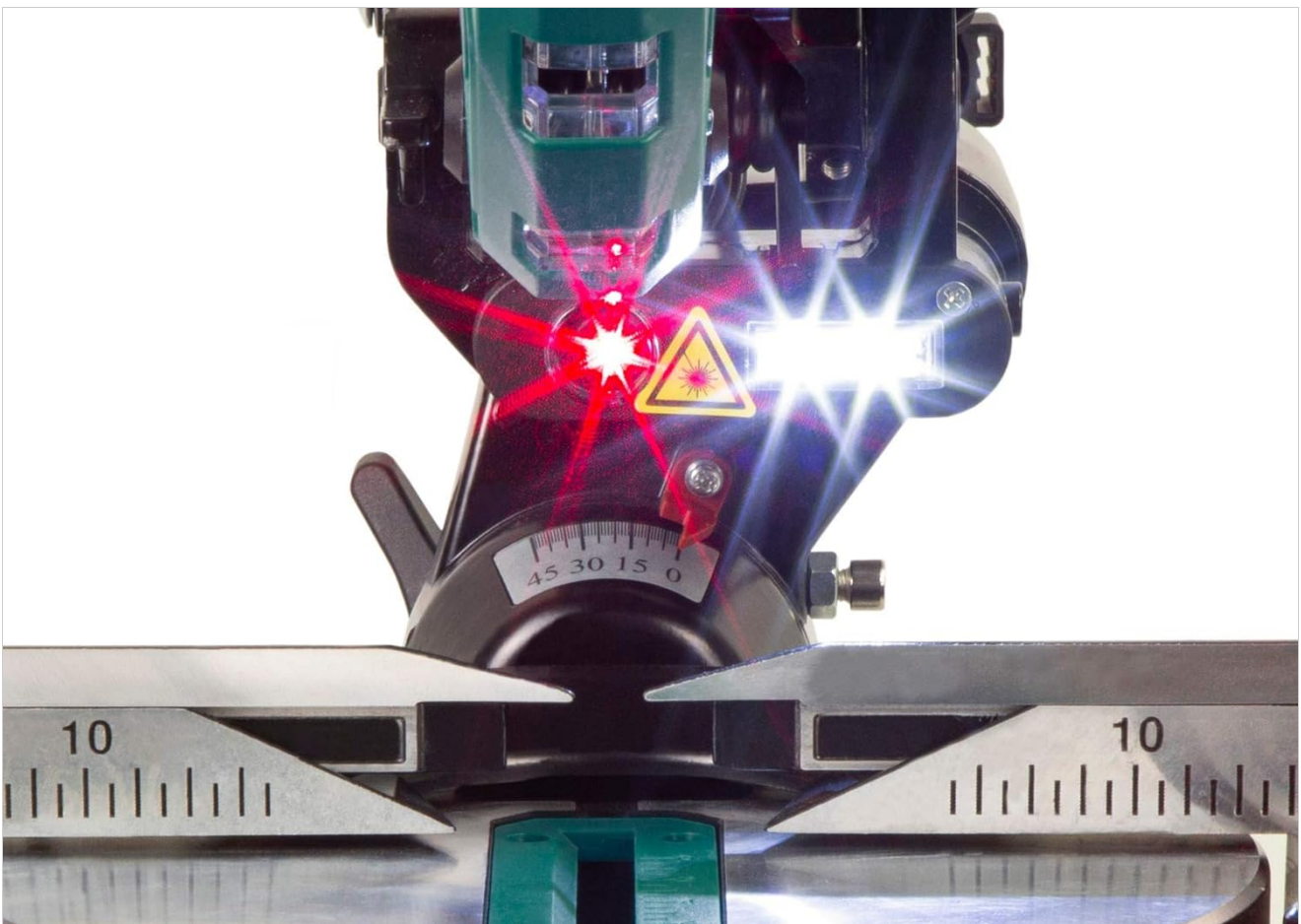


Image 4.1: Detail of the laser guide and LED work light, highlighting their position above the saw blade.

5. SETUP AND ASSEMBLY

Before first use, ensure the saw is securely mounted on a stable workbench. Follow these steps for initial setup:

5.1. Mounting the Saw

1. Place the mitre saw on a firm, level surface.
2. Secure the saw to the workbench using appropriate bolts or clamps through the mounting holes in the base.

5.2. Attaching Bench Extensions

The included bench extensions provide additional support for longer workpieces.

1. Slide the bench extensions into the designated slots on either side of the saw base.
2. Tighten the locking screws to secure them in place.

5.3. Installing the Dust Bag

Attach the dust bag to the dust extraction port to collect sawdust during operation.

1. Locate the dust extraction port on the saw.
2. Securely attach the dust bag to the port. Ensure it is firmly in place to prevent detachment during use.

5.4. Adjusting the Work Piece Clamp

The workpiece clamp helps secure material for safe and accurate cutting.

1. Insert the workpiece clamp into the designated hole on the saw table.
2. Adjust its position to firmly hold the workpiece against the fence.

6. OPERATING INSTRUCTIONS

Always wear appropriate personal protective equipment (PPE) including eye protection, hearing protection, and a dust mask when operating the saw.

6.1. Basic Cutting Procedure

1. **Prepare Workpiece:** Mark your desired cut line on the material.
2. **Position Workpiece:** Place the workpiece firmly against the fence and secure it with the workpiece clamp. Ensure the material is fully supported.
3. **Adjust Angles (if necessary):**
 - **Mitre Angle:** Adjust the turntable to the desired mitre angle (up to 45 degrees left or right). Lock the turntable in place.
 - **Bevel Angle:** Tilt the saw head to the desired bevel angle (up to 45 degrees). Lock the saw head in place.
4. **Activate Laser and LED:** Turn on the laser guide and LED work light for precise alignment and improved visibility.
5. **Start Saw:** Press the power switch to start the motor. Allow the blade to reach full speed before beginning the cut.
6. **Perform Cut:**
 - For straight cuts, slowly lower the saw blade through the workpiece.

- For radial (sliding) cuts, pull the saw head towards you, lower the blade into the material, and then push the saw head smoothly through the workpiece.

7. **Release Saw:** Once the cut is complete, release the power switch and allow the blade to stop completely before raising the saw head.

8. **Remove Workpiece:** Carefully remove the cut material.



Image 6.1: Demonstrating a cut with the saw, showing proper hand placement and dust extraction hose.

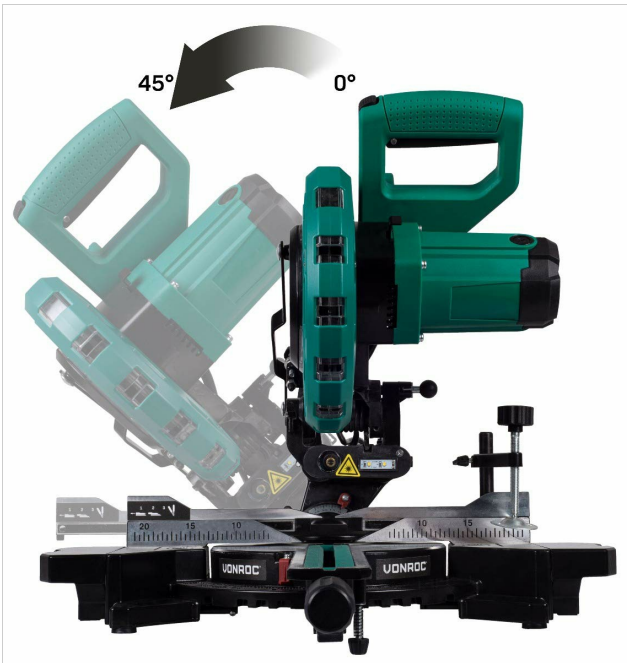


Image 6.2: Illustration of the saw head tilting for bevel cuts, adjustable up to 45 degrees.

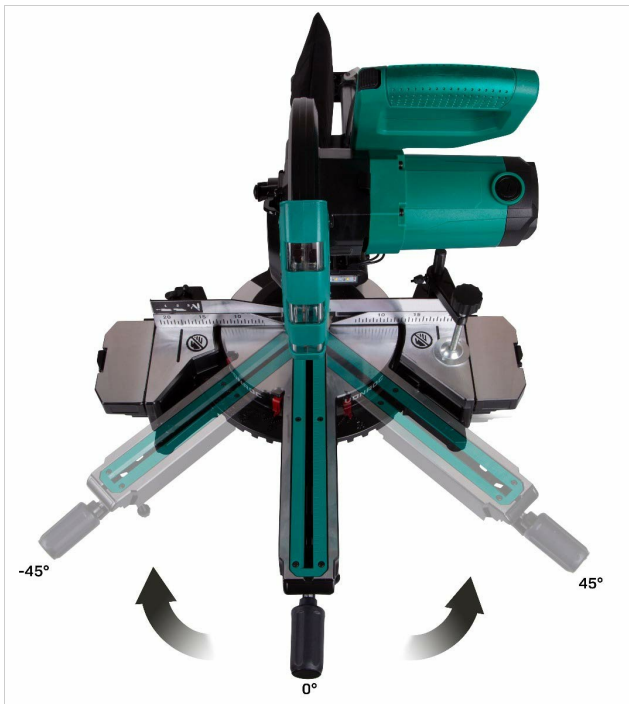


Image 6.3: Illustration of the saw base rotating for mitre cuts, adjustable from -45 to +45 degrees.



Image 6.4: Detail of the measurement scale and adjustable fence for accurate workpiece positioning.

6.2. Using the Laser Guide and LED Light

The laser guide projects a red line onto the workpiece, indicating the exact cutting path. The LED light illuminates the cutting area. These features can be activated independently or together via dedicated switches.

- Always verify the laser line against your marked cut line before starting the saw.
- The LED light is particularly useful in dimly lit workshops or when working on intricate cuts.

7. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your VONROC MS500AC Mitre Saw. Always disconnect the saw from the power supply before performing any maintenance or cleaning.

7.1. Cleaning

- After each use, clean the saw thoroughly to remove sawdust and debris. Use a brush or compressed air.
- Empty the dust bag regularly.
- Wipe down external surfaces with a damp cloth. Do not use harsh chemicals or solvents.

- Keep the ventilation openings clear to prevent overheating.

7.2. Blade Replacement

A dull or damaged saw blade can lead to poor cuts and increased risk of kickback. Replace the blade when necessary.

1. Disconnect the saw from the power supply.
2. Refer to the saw's specific instructions for accessing and removing the blade guard.
3. Use the provided Allen wrench to loosen the blade retaining bolt.
4. Carefully remove the old blade, noting its rotation direction.
5. Install the new blade, ensuring the teeth are oriented correctly for cutting.
6. Tighten the blade retaining bolt securely and reassemble the blade guard.

7.3. Laser and LED Maintenance

- Keep the laser aperture and LED lens clean from dust and debris to maintain optimal visibility.
- If the laser becomes misaligned, refer to the specific adjustment procedures in the full manual (if available) or contact customer support.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your mitre saw. For problems not listed here, please contact VONROC customer support.

Problem	Possible Cause	Solution
Saw does not start	No power supply; Faulty switch; Overload protection activated.	Check power connection; Test outlet; Allow motor to cool down.
Poor cut quality (rough, splintering)	Dull or incorrect blade; Incorrect cutting speed; Workpiece not secured.	Replace blade; Use appropriate blade for material; Secure workpiece firmly; Adjust cutting speed.
Laser line is dim or inaccurate	Dirty laser lens; Misalignment; Low battery (if applicable).	Clean laser lens; Consult service for alignment; Check/replace laser battery (if applicable).
Excessive vibration or noise	Loose blade; Damaged blade; Loose components; Motor issue.	Check blade tightness; Replace damaged blade; Inspect and tighten components; Contact service.

9. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	VONROC
Model Number	MS500AC
Power Source	Corded Electric
Wattage	2000 Watts
Voltage	240 Volts

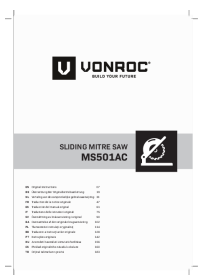
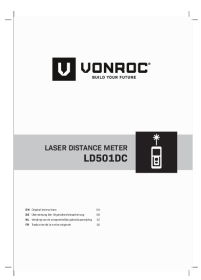
Feature	Specification
Speed	4700 RPM
Blade Diameter	216 mm
Number of Teeth	80 (Note: Product title mentions 40-toothed, specifications mention 80. Using 80 as it's in the detailed spec list.)
Max Cutting Capacity (H x W)	65 x 340 mm
Cutting Angle (Mitre)	45 Degrees (Left/Right)
Cutting Angle (Bevel)	45 Degrees (Left)
Item Weight	11.8 kg
Product Dimensions (LxWxH)	79 x 47 x 14 cm
Included Components	Allen Wrench, Bench Extensions, Dust Bag, Saw Blade, Work Piece Clamp

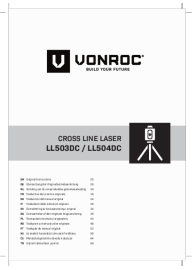
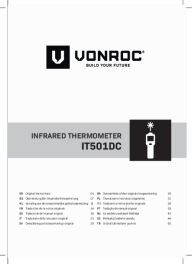
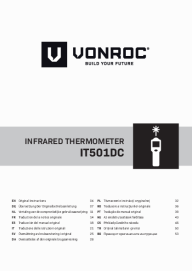
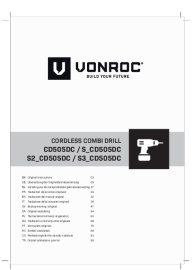
10. WARRANTY AND CUSTOMER SUPPORT

VONROC products are manufactured to high-quality standards. In the unlikely event of a defect or malfunction, please refer to your purchase documentation for warranty details or contact VONROC customer support directly. For assistance, spare parts, or technical inquiries, please visit the official VONROC website or contact their customer service department. Always have your model number (MS500AC) and purchase date available when contacting support.

[Visit VONROC Official Website](#)

Related Documents - MS500AC

	<p>VONROC MS501AC Sliding Mitre Saw User Manual</p> <p>Comprehensive user manual for the VONROC MS501AC Sliding Mitre Saw, covering safety instructions, machine information, assembly, operation, and maintenance for precise and safe woodworking.</p>
	<p>VONROC LD501DC Laser Distance Meter User Manual</p> <p>Comprehensive user manual for the VONROC LD501DC Laser Distance Meter, covering safety instructions, technical specifications, operation, maintenance, and warranty information.</p>

 <p>The cover of the VONROC LL503DC / LL504DC Cross Line Laser User Manual features the VONROC logo at the top left. Below it, the title 'CROSS LINE LASER' is prominently displayed, followed by the model numbers 'LL503DC / LL504DC'. A small image of the laser tool is shown on the right side. At the bottom, there is a table of contents listing various sections such as 'Safety', 'Introduction', 'Assembly', 'Operation', 'Maintenance', and 'Specifications'.</p>	<p>VONROC LL503DC / LL504DC Cross Line Laser User Manual</p> <p>User manual for the VONROC LL503DC and LL504DC Cross Line Laser. Provides comprehensive instructions for safe operation, assembly, maintenance, and product specifications.</p>
 <p>The cover of the VONROC IT501DC Infrared Thermometer User Manual features the VONROC logo at the top left. Below it, the title 'INFRARED THERMOMETER' is prominently displayed, followed by the model number 'IT501DC'. A small image of the thermometer is shown on the right side. At the bottom, there is a table of contents listing various sections such as 'Safety', 'Introduction', 'Operation', 'Maintenance', and 'Specifications'.</p>	<p>VONROC IT501DC Infrared Thermometer User Manual</p> <p>User manual for the VONROC IT501DC Infrared Thermometer, providing instructions for safe operation, technical specifications, and maintenance. Learn how to use your infrared thermometer effectively.</p>
 <p>The cover of the VONROC IT501DC Infrared Thermometer User Manual features the VONROC logo at the top left. Below it, the title 'INFRARED THERMOMETER' is prominently displayed, followed by the model number 'IT501DC'. A small image of the thermometer is shown on the right side. At the bottom, there is a table of contents listing various sections such as 'Safety', 'Introduction', 'Operation', 'Maintenance', and 'Specifications'.</p>	<p>VONROC IT501DC Infrared Thermometer User Manual</p> <p>This user manual provides comprehensive instructions for the VONROC IT501DC Infrared Thermometer, covering safety guidelines, technical specifications, operation, maintenance, and warranty information.</p>
 <p>The cover of the VONROC Cordless Combi Drill CD505DC User Manual & Safety Instructions features the VONROC logo at the top left. Below it, the title 'CORDLESS COMBI DRILL' is prominently displayed, followed by the model numbers 'CD505DC / S_CD505DC / S2_CD505DC / S3_CD505DC'. A small image of the drill is shown on the right side. At the bottom, there is a table of contents listing various sections such as 'Safety', 'Introduction', 'Operation', 'Maintenance', and 'Specifications'.</p>	<p>VONROC Cordless Combi Drill CD505DC User Manual & Safety Instructions</p> <p>Comprehensive user manual and safety instructions for the VONROC Cordless Combi Drill models CD505DC, S_CD505DC, S2_CD505DC, and S3_CD505DC. Learn about operation, maintenance, and safety guidelines.</p>