

Holzmann H040200004

Holzmann DSM 200 Dual Bench Grinder Instruction Manual

Model: H040200004

1. INTRODUCTION

Thank you for choosing the Holzmann DSM 200 Dual Bench Grinder. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your machine. Please read this manual thoroughly before operating the grinder and keep it for future reference.

The Holzmann DSM 200 is a robust dual bench grinder featuring a maintenance-free induction motor for quiet operation and reduced vibrations, ensuring durability for extended working periods. Constructed with a cast iron body, it includes two 200x32x32 mm grinding wheels and precision ball bearings for long service life and high stability. Equipped with adjustable plexiglass eye shields, one of which includes a magnifier for precision work.

2. GENERAL SAFETY INSTRUCTIONS

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury when using power tools. Keep this manual handy for quick reference.

- **Work Area Safety:** 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.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges, and refrigerators.
- **Personal Safety:** Always wear eye protection (safety glasses or a face shield). Use hearing protection when operating the grinder. Wear appropriate clothing; avoid loose clothing, jewelry, or long hair that can get caught in moving parts. Use a dust mask if grinding operations create dust.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.
- **Specific Grinder Safety:** Ensure grinding wheels are correctly mounted and tightened before use. Inspect wheels for cracks or damage before each use. Do not use damaged wheels. Adjust tool rests to within 1/16 inch (1.5 mm)

of the grinding wheel. Never grind on the side of the wheel unless the wheel is specifically designed for side grinding.

3. PRODUCT OVERVIEW

The Holzmann DSM 200 is a versatile dual bench grinder. Below are key components and features.



Figure 1: Front view of the Holzmann DSM 200 Dual Bench Grinder, showing the two grinding wheels, adjustable tool rests, and protective eye shields.



Figure 2: Another view of the Holzmann DSM 200, highlighting its robust cast iron construction and compact design.

Key Features:

- Maintenance-free induction motor
- Low vibration and quiet operation
- Durable cast iron body
- Precision ball bearings for stability and longevity
- Two grinding wheels included (Grit 36 and Grit 60)
- Adjustable plexiglass eye shields, one with a magnifier
- Adjustable tool rests

4. SETUP AND INSTALLATION

4.1 Unpacking

Carefully remove the grinder from its packaging. Inspect the machine for any damage that may have occurred during transit. Report any damage to your supplier immediately. Ensure all components listed in the packing list are present.

4.2 Mounting the Grinder

For safe operation, the DSM 200 must be securely mounted to a workbench or stand. Use appropriate bolts and washers (not included) to fasten the grinder through the mounting holes in its base.

- Choose a stable, level surface capable of supporting the grinder's weight and operational forces.
- Mark the mounting hole locations on your workbench.
- Drill pilot holes if necessary.
- Secure the grinder using bolts, lock washers, and nuts. Ensure it is firmly attached and does not wobble.

4.3 Installing/Adjusting Components

Before first use, ensure all protective components are correctly installed and adjusted.

- **Eye Shields:** Attach the plexiglass eye shields to their designated mounting points. Adjust them so they provide maximum protection without obstructing your view of the workpiece.
- **Tool Rests:** Position the tool rests as close as possible to the grinding wheels, ideally within 1/16 inch (1.5 mm), without touching the wheel. This minimizes the risk of the workpiece being jammed between the rest and the wheel. Tighten the tool rest locking screws securely.
- **Spark Deflectors:** Ensure spark deflectors are in place and properly positioned to direct sparks away from the operator.

5. OPERATING INSTRUCTIONS

5.1 Before Starting

- Verify that the grinder is securely mounted.
- Check that the grinding wheels are free from cracks or damage.
- Ensure eye shields and tool rests are properly adjusted and secured.
- Wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and gloves.
- Ensure the power cord is in good condition and connected to a suitable 230V power outlet.

5.2 Starting and Stopping

- **To Start:** Press the green "ON" button or flip the switch to the "ON" position. Allow the grinder to reach full operating speed (2950 rpm) before applying a workpiece.
- **To Stop:** Press the red "OFF" button or flip the switch to the "OFF" position. Wait for the grinding wheels to come to a complete stop before leaving the machine unattended.

5.3 Grinding Techniques

- Always use the tool rest to support the workpiece.
- Apply light, even pressure. Forcing the workpiece against the wheel can cause overheating, damage to the workpiece, or wheel breakage.
- Move the workpiece across the face of the wheel to ensure even wear and prevent grooving.
- Use the coarse grit wheel (Grit 36) for rapid material removal and rough shaping.
- Use the fine grit wheel (Grit 60) for sharpening, finishing, and deburring.
- Periodically cool hot workpieces in water to prevent overheating and loss of temper.
- Never grind soft materials like wood or plastic on this machine.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Holzmann DSM 200.

6.1 Cleaning

- Disconnect the grinder from the power supply before cleaning.
- Regularly clean dust and debris from the motor vents to prevent overheating. Use compressed air or a soft brush.
- Wipe down the exterior of the machine with a damp cloth. Do not use harsh chemicals or solvents.

6.2 Grinding Wheel Replacement

Grinding wheels wear down over time and may need replacement. Always use wheels rated for the grinder's speed and size (200x32x32 mm).

- Disconnect the power supply.
- Remove the wheel guard and any retaining nuts or flanges.
- Carefully remove the old wheel.
- Install the new wheel, ensuring it fits correctly on the arbor and the blotters (paper washers) are in place.
- Reinstall the flanges and retaining nut, tightening just enough to hold the wheel firmly without overtightening.
- Replace the wheel guard.
- Before use, perform a test run for a minute to ensure the wheel runs true and there are no unusual vibrations. Stand clear during this test.

6.3 Dressing Grinding Wheels

Over time, grinding wheels can become glazed or out of round. Use a wheel dresser to restore the wheel's cutting surface and shape.

- With the grinder running, hold the wheel dresser firmly on the tool rest.
- Slowly and evenly move the dresser across the face of the grinding wheel until the surface is clean and true.
- Wear extra eye protection and a dust mask during this process.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Grinder does not start	No power supply; Faulty switch; Motor issue	Check power connection and circuit breaker. Test the switch. If motor issue, contact service.
Excessive vibration	Loose mounting; Unbalanced wheel; Damaged wheel	Ensure grinder is securely mounted. Dress or replace grinding wheel.
Grinding wheel not cutting efficiently	Glazed wheel; Worn wheel	Dress the grinding wheel. Replace if severely worn.
Motor overheats	Blocked ventilation; Overloading	Clean motor vents. Reduce grinding pressure and allow motor to cool.

For issues not listed here or if solutions do not resolve the problem, please contact Holzmann customer support or a qualified service technician.

8. TECHNICAL SPECIFICATIONS

Specification	Value
Model	DSM 200 (H040200004)
Motor Power (S1)	900 W
Voltage	230 V
No-load Speed	2950 rpm
Grinding Wheel Dimensions	200 x 32 x 32 mm
Machine Dimensions (L x W x H)	526 x 320 x 310 mm
Net Weight	28 kg
Gross Weight	30 kg
Material	Cast Iron

9. WARRANTY AND SUPPORT

Holzmann products are manufactured to high-quality standards. For warranty information, please refer to the warranty card included with your product or visit the official Holzmann website. Keep your purchase receipt as proof of purchase.

For technical support, spare parts, or service inquiries, please contact your authorized Holzmann dealer or the Holzmann customer service department. When contacting support, please have your model number (H040200004) and serial number (if applicable) ready.

Manufacturer: Holzmann

First Available Date: January 15, 2020

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Example: How do I reset this device or fix this error?

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Model number, symptoms, what you tried, or the section of the manual you are using.

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