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> Hilka 91600012 Pro Craft 6-inch Bench Grinder User Manual

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INTRODUCTION

This manual provides essential instructions for the safe and effective operation, setup, and maintenance of your Hilka 91600012 Pro Craft 6-inch Bench Grinder. Please read this manual thoroughly before using the product to ensure proper handling and to prevent injury or damage. Keep this manual for future reference.



Image: The Hilka 91600012 Pro Craft 6-inch Bench Grinder, featuring a blue motor housing, two grinding wheels with clear eye shields, and a yellow power switch on the front base.

SAFETY INSTRUCTIONS

Always observe basic safety precautions when using electrical tools to reduce the risk of fire, electric shock, and

personal injury.

- **Read all instructions:** Familiarize yourself with the controls and proper use of the bench grinder.
- **Wear eye protection:** Always wear safety goggles or a face shield to protect against flying debris.
- **Wear appropriate clothing:** Avoid loose clothing, gloves, ties, or jewelry that can get caught in moving parts.
- **Secure workpiece:** Always use the tool rests to support the workpiece firmly.
- **Maintain a clean work area:** Cluttered areas invite accidents.
- **Do not operate in hazardous environments:** Do not use power tools in damp or wet locations, or expose them to rain.
- **Keep children away:** All visitors should be kept a safe distance from the work area.
- **Use the right tool:** Do not force a small tool or attachment to do the job of a heavy-duty tool.
- **Check for damaged parts:** Before further use, carefully check the guard or other parts to determine that they will operate properly and perform their intended function.
- **Disconnect power:** Always disconnect the grinder from the power supply before making adjustments, changing accessories, or performing maintenance.

PRODUCT OVERVIEW

The Hilka 91600012 Pro Craft Bench Grinder is designed for sharpening tools, removing rust, and general grinding tasks. Key components include:

- **Grinding Wheels:** Two 6-inch (15.2 cm) grinding wheels, typically one coarse and one fine, for various grinding applications.
- **Eye Shields:** Transparent shields positioned above each grinding wheel to protect the user's eyes from sparks and debris.
- **Tool Rests:** Adjustable platforms in front of each grinding wheel to support the workpiece during grinding.
- **Motor Housing:** The central blue body containing the electric motor that drives the grinding wheels.
- **Power Switch:** A yellow switch located on the front base for turning the grinder on and off.
- **Base:** A sturdy base with mounting holes for securing the grinder to a workbench.

SETUP

1. **Unpacking:** Carefully remove the bench grinder and all accessories from the packaging. Inspect for any damage that may have occurred during transit. Report any damage to your supplier immediately.
2. **Mounting:**
 - Position the grinder on a sturdy workbench at a comfortable working height.
 - Mark the locations for the mounting bolts through the holes in the grinder's base.
 - Drill appropriate holes in the workbench.
 - Secure the grinder to the workbench using bolts, washers, and nuts (not supplied). Ensure it is firmly attached to prevent movement during operation.
3. **Attaching Eye Shields and Tool Rests:**
 - Attach the eye shields and tool rests to their respective mounting points using the provided hardware.
 - Adjust the eye shields so they provide maximum protection without obstructing your view of the workpiece.
 - Adjust the tool rests so that the gap between the wheel and the rest is no more than 1/16 inch (1.5 mm). This minimizes the risk of the workpiece getting jammed.

4. Electrical Connection:

- Ensure the power switch is in the "OFF" position.
- Connect the power cord to a suitable grounded electrical outlet. The grinder operates on 240 volts, 50 Hz, with a 373-watt motor.
- Verify that the electrical supply matches the specifications on the product label.

OPERATING INSTRUCTIONS

1. Pre-Operation Check:

- Ensure all guards and eye shields are securely in place and properly adjusted.
- Check that the grinding wheels are not cracked or damaged. Replace any damaged wheels immediately.
- Confirm the tool rests are adjusted to the correct distance from the grinding wheels.

2. Starting the Grinder:

- Stand to one side of the grinder.
- Press the "ON" button on the power switch. Allow the wheels to reach full operating speed before beginning any work.

3. Grinding Techniques:

- Hold the workpiece firmly against the tool rest.
- Apply light, even pressure to the grinding wheel. Avoid excessive force, which can damage the wheel or motor.
- Move the workpiece slowly and consistently across the face of the wheel to ensure even wear and a smooth finish.
- Use the coarse wheel for heavy material removal and the fine wheel for sharpening and finishing.
- Periodically check the temperature of the workpiece and cool it with water if it becomes too hot.

4. Stopping the Grinder:

- Press the "OFF" button on the power switch.
- Wait for the grinding wheels to come to a complete stop before leaving the machine or performing any adjustments.

MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your bench grinder. Always disconnect the power before performing any maintenance.

- **Cleaning:** Regularly clean dust and debris from the motor housing and around the grinding wheels. Use compressed air or a soft brush.
- **Wheel Dressing:** Over time, grinding wheels can become glazed or out of round. Use a wheel dresser to restore the wheel's cutting surface and shape.
- **Wheel Replacement:**
 - When a grinding wheel wears down to within 1/2 inch (12 mm) of its flange, it must be replaced.
 - To replace, remove the eye shield, tool rest, and outer flange nut. Carefully remove the old wheel and replace it with a new one of the correct size and type.
 - Ensure the new wheel is properly seated and the flange nut is tightened securely, but not excessively, to avoid cracking the wheel.
- **General Inspection:** Periodically check all nuts, bolts, and screws for tightness. Inspect the power cord for

any signs of damage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Grinder does not start.	No power supply; faulty switch; motor issue.	Check power cord and outlet. Ensure switch is "ON". If problem persists, consult a qualified technician.
Grinder trips circuit breaker/fuse.	Overload; short circuit; faulty wiring.	Reduce load. Check for damaged power cord or internal wiring. If issue persists, discontinue use and seek professional repair.
Excessive vibration during operation.	Unbalanced grinding wheel; loose mounting; worn bearings.	Dress or replace grinding wheel. Tighten mounting bolts. If bearings are suspected, professional service is required.
Poor grinding performance.	Glazed or worn grinding wheel; incorrect wheel type.	Dress the grinding wheel. Replace worn wheels. Ensure the correct grit wheel is used for the task.

SPECIFICATIONS

Feature	Specification
Model Number	91600012
Brand	Hilka
Power	373 Watts
Input Voltage	240 Volts
Frequency	50 Hz
Product Dimensions (L x W x H)	37 x 25 x 21 cm
Weight	8.01 kg
Grinding Wheel Diameter	6 inches (15.2 cm)

WARRANTY AND SUPPORT

Specific warranty terms and conditions for the Hilka 91600012 Pro Craft Bench Grinder are typically provided at the point of purchase or included with the product packaging. For detailed warranty information, technical support, or spare parts inquiries, please refer to the documentation supplied with your product or contact Hilka customer service directly. Information regarding spare parts availability is not provided in this manual.