

Low Speed Bench Grinder



The Low Speed Bench Grinder is a machine used to drive an abrasive wheel or wheels. Depending on the grade of the grinding wheel, it may be used for shaping or sharpening the cutting edge of **lathe tools only**. To avoid accidents, the following operational safety rules must be observed by everyone working on the GWG Bench Grinder. **Failure to be certified or to follow the safety rules will result in loss of shop privileges.**

Bench Grinder Safety Rules:

1. Wear proper apparel. Remove loose fitting clothing, jewelry and tie back long hair. Do not wear gloves.
2. Wear hearing, eye protection.
3. A two foot perimeter around the grinder should be kept clear of people and debris that impair traction or footing to avoid slips and falls.
4. Before working with the bench grinder, make sure the tool and its accessories are in proper working order.
5. Inspect the wheels for any hairline crack before using. **DO NOT USE WITH A CRACKED OR DAMAGED WHEEL.**
6. Make sure the wheel housing guards are in place.
7. Wheels should be trued & dressed when worn out of round or the surface is clogged (discolored). This provides a clean sharp grinding surface of the wheel. Dress the wheel on the face only. Dressing the side of the wheel could cause it to crack or break.
8. Give the work your undivided attention.
9. Never leave a running machine unattended.
10. When using the tool rest, ensure it is securely tightened and approximately 1/8 inch from the wheel.
11. Never adjust the tool rest with the machine running.
12. Keep your hands away from the wheel & avoid positions where the hand could slip & contact the spinning wheel.
13. Never grind using the side of the wheel – pressure against the side of the wheel may cause it to fracture.
14. Disconnect the power source before servicing or repairing.
15. Users of this tool must have already received lathe certification.

Operational Rules:

Adjustments must only be made when the grinder is stopped.

Spark or shatter guards & wheel housing guards must be in place.

Stand to one side of the wheel to run at full operating speed for one minute before using. DO NOT use a wheel that vibrates.

Bring the object into contact with the grinding wheel slowly & smoothly, avoiding impact or bumping motions. Only minimal pressure against the wheel should be used.

Move the object being ground, back and forth across the face of the wheel only, as this prevents grooves from forming on the wheel.

Never grind small stock. Do not attempt to grind or sharpen anything that cannot be adequately supported by the tool rest or sharpening jig. Use clamping pliers when grinding parts that cannot be held easily by hand.

Do not touch the ground portion of the work piece until cooled.

Turn off the grinder & wait until it comes to a complete stop. Never stick an object into or against the wheel to stop the grinder quicker. Let it stop on its own.

Clean up the work area around the grinder when finished.