

# G4031 MINI LATHE

## SAFETY PROCEDURES

Before using your Model G4031, let's take a few moments to consider some safety guidelines for metal lathe use.

The Model G4031 is a powerful machine that carries some potential danger for accident or injury. While these guidelines aren't intended to make you fear this machine, they should encourage you to give it plenty of respect.

Metalworking lathes can run at high speeds and have several exposed moving parts. Because of this, certain safeguards and operating methods must be followed to ensure safe and hazard-free operation.

- 1. KEEP COVERS AND GUARDS IN PLACE.** Don't be tempted to run the machine without its covers in place. They are there to protect the machine and the operator.
- 2. GROUND YOUR MACHINE.** We've mentioned it before and again here, because it's terribly important. A poorly grounded or un-grounded machine has the potential for severe shock hazard. Don't take the chance.
- 3. DON'T SMOKE OR ALLOW OPEN FLAMES NEAR YOUR LATHE.** Solvents, lubricants and some metal shavings are highly combustible.
- 4. DISCONNECT POWER.** Always disconnect your lathe from its power source when making modifications or repairs. Disconnect the tool when it's not being used.
- 5. ELIMINATE LOOSE CLOTHING** or other articles, such as jewelry, ties, or gloves that could possibly be caught in the lathe as it rotates.
- 6. DO NOT MODIFY THE MACHINE.** Any modifications made to the Model G4031 will void its warranty and expose the operator and others to severe safety hazards.
- 7. GIVE YOUR MODEL G4031 PLENTY OF ROOM TO WORK.** A crowded or cluttered work area invites accidents.
- 8. REMOVE CHUCK KEYS** and all adjustment tools as soon as adjustments are completed.
- 9. NEVER REVERSE MOTOR DIRECTION** while the motor is running.
- 10. NEVER CHANGE GEARS** or spindle speeds while the lathe is turning.
- 11. WHEN DOING FACEPLATE WORK,** ensure the workpiece is well balanced.
- 12. INSPECT YOUR CHUCK** and faceplate frequently. If they are improperly seated, do not operate the lathe.
- 13. NEVER USE YOUR FINGERS** to apply grease to open gearing. Use a stick or spreader instead.
- 14. MAKE SURE STOCK IS FULLY ENGAGED** in the chuck whenever possible. This will extend the life of the jaws.
- 15. ALWAYS PLACE A BOARD OR PIECE OF PLYWOOD ACROSS THE BEDWAY** when removing or installing chucks to prevent damage if the chuck should slip and fall.
- 16. COVER THE LATHE** with an old bedsheet or other breathable cotton cover when the machine is not in use. **DO NOT** use a plastic tarp; condensation can promote rust and corrosion.
- 17. NEVER LEAVE THE TOOL RUNNING UNATTENDED - TURN POWER OFF.** Do not leave the tool until it comes to a full stop.
- 18. KNOW YOUR POWER TOOL.** Learn the tool's applications and limitations, as well as its particular hazards.

# SAFETY RULES FOR ALL TOOLS

There are certain applications for which this tool was designed. We strongly emphasize that this tool should never be modified and/or used for any application other than that for which it was designed. If you are confused about any aspect of this machine, **do not** use it until you have resolved any questions you might have. The following are important safety rules for all tools.

- 1. KEEP GUARDS IN PLACE** and in working order.
- 2. GROUND ALL TOOLS.** If the tool is equipped with a three-prong plug, it should be plugged into a three-hole grounded outlet. If an adapter is used to accommodate a two-prong receptacle, the adapter plug must be attached to a known ground. Never remove the grounding prong.
- 3. REMOVE ADJUSTING KEYS AND WRENCHES.** Make it a habit to check that keys and adjusting wrenches are removed from the machine before turning it on.
- 4. KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
- 5. AVOID DANGEROUS ENVIRONMENTS.** Do not use power tools in damp or wet locations or expose them to rain. Keep your work area well lighted.
- 6. KEEP CHILDREN AND VISITORS AWAY.** All children and visitors should be kept a safe distance away from your work area.
- 7. MAKE WORKSHOP CHILD-PROOF** with padlocks, master switches, or by removing starter keys.
- 8. DO NOT FORCE TOOL.** Tools work better and more safely when they are allowed to work at their own speed.
- 9. WEAR PROPER APPAREL.** Do not wear loose clothing, gloves, neckties, or jewelry that might get caught in moving parts. Non-slip footwear is also recommended. Wear a hat or other protective head wear if your hair is long.
- 10. USE THE RIGHT TOOL.** Do not use a tool or an attachment to do a job it wasn't intended for.
- 11. USE SAFETY GLASSES AND EAR PROTECTION.** Also use a dust mask if the turning operation produces dust or fine chips.
- 12. SECURE YOUR WORK.** Use clamps or a fixture to hold your work. It is safer than using your hands and frees up both hands for operating the tool.
- 13. DO NOT OVERREACH.** Keep proper footing and balance at all times.
- 14. MAINTAIN TOOLS IN TOP CONDITION.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- 15. DISCONNECT TOOLS FROM POWER** before servicing and when changing accessories.
- 16. USE RECOMMENDED ACCESSORIES.** Consult the current catalog for recommended accessories. The use of improper accessories may be hazardous.
- 17. AVOID ACCIDENTAL STARTING.** Make sure the switch is in the "OFF" position before plugging in the power cord.
- 18. NEVER STAND OR LEAN ON TOOL.** Serious injury could occur if the tool is tipped or if the cutting surfaces are accidentally contacted.
- 19. CHECK DAMAGED PARTS.** Before further use of the tool, any part or guard that is damaged should be promptly repaired or replaced. Do not operate the machine until you are certain it is in perfect running condition. Failure to follow this precaution could result in further mechanical damage and operator injury.
- 20. DIRECTION OF FEED.** Always turn your work against the direction of bit or cutter. Failure to do so could result in damage to the cutting tool and your workpiece.
- 21. DRUGS, ALCOHOL, MEDICATION.** Do not operate the tool under the influence of drugs, alcohol, or any medication. Never operate machinery when overly fatigued.