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## PROFESSIONAL GLASS LATHE

Covington's Professional Glass Lathe has come to fruition after years of research and engineering. This one-sided lathe features a 1hp, 110/220V - 50/60Hz DC motor with plenty of torque to run from 0 to 1850rpm without affecting speed. A NEMA 4X power supply allows the user to get the unit wet without fear of electrocution. The 1-1/2" stainless steel 304 shaft is precision ground to within 0.0005 tolerance across the length of the shaft. It features a morse 3 taper making its tools compatible with other lathes of its kind. This unit has a solid aluminum housing giving it a heavy-duty construction with a modern look. A tool rest sits at the top of the unit for storing the drift and extra spindles.

### INSTALLATION

#### ***DO NOT PICK UNIT UP BY SHAFT.***

Prior to installation, read *Covington's Safety Demands Sheet* and comply with all instructions. Make sure you have a clean, usable workspace with access to water and an electrical power source.

The Professional Lathe **MUST** be anchored to a solid, level table or bench. The unit features four bolt-holes in the base for mounting purposes.

*Wheel Installation:* It is important to install wheels properly to avoid vibration. Wheels must be installed on ultra precise spindles so it is important for the wheels to be balanced and to run true. ***Make sure that there is no vibration in the wheel before turning the unit up to full speed.***

## **OPERATION**

***Safety Warning: The morse taper spindle is removed with a drift. MAKE SURE THE DRIFT IS NOT SITTING IN THE SLOT BEFORE TURNING THE UNIT ON! This tool is just for removing the spindle and can cause extreme injury or death if left in slot.***

There must be a provision for bringing water to the wheels. A moderate flow is satisfactory. This is important because:

1. It keeps wheels flushed clean so dust will not form. It is hazardous to your health to breathe glass dust.
2. Heat generated by dry grinding can damage the material being cut.
3. It is possible to shorten the life of your grinding wheel if you run it dry.
4. Grinding residue will be washed away making cutting action faster.
5. Place tapered spindle into slot by hand and check to make sure it is secure. Do not forcefully drive the spindle into the slot or beat it with a hammer as it will flare the end of the shaft.

DO NOT allow cork or felt wheels to absorb water as it will upset its balance. After each use wheels should be run dry for at least one minute before the machine is stored for the day. This clears the wheel of water impregnation. Never allow the wheel to sit in water when not in use.

Water manifolds with loc-line® are available for purchase in the catalog and online to provide water to the wheel face.

## **MAINTENANCE**

It is important to maintain your machine so it remains operable. Please use the following instructions for care and maintenance.

1. Grease bearings every 250 hours of use.
2. Brushes on DC motor will wear out over time and can be changed by user. Spare parts are available through Covington and are not covered under warranty.
3. Check set screws, motor pulley, arbor pulley, and belt for unusual wear every six months.