

Manual Modern Lathe

Facility:	Written By:	Approved By:	Date Created:	Date of Last Revision

Hazards Present:	PPE or Devices Required:	Additional Training Required:
Rotating Parts	Safety Glasses	Lockout
Amputation	Hearing Protection	Job specific training
Eye Injury	Steel Toed Boots	Instruction from competent person
Debris	Lockout Devices	
	Use Hoist for heavy material	

Safe Work Procedure:

- 1) Complete a visual inspection of equipment. Inspect guards, clamps, guides and tooling
- 2) Ensure to wear all PPE required – DO NOT operate lathe while wearing gloves, baggy clothing or jewelry
- 3) To move heavy material to lathe bed use forklift or overhead crane
- 4) Ensure work area is free from housekeeping hazards prior to operation
- 5) Ensure material is mounted to check using tail stock as needed
- 6) Ensure all guards are in place and secured, test the interlock switch, chuck guards, tool post, chip shields, tail stock and barriers.
- 7) **Work Piece cannot hang out past chuck 3 times its diameter without tailstock supporting it**
- 8) For turning/cutting operations (working on the diameter) – position the cutting tool to correct angle for operation
- 9) Remove all tools, measuring instruments and other objects from head stock or lathe bed before starting machine. **Remove chuck key before starting machine**
- 10) Follow job specification for the speed, feed and depth of cut for materials being turned. Make sure all work runs true and centered. Set depth of cut to remove no more than the maximum allowable for operation.
- 11) Center drill work deeply enough to provide support for the piece while it is turning
- 12) Adjust tool and tool rest so that they are at the center of the work
- 13) For finishing/polishing operations – ensure file/emery cloth are in a safe working condition – **maintain a safe working distance – arm length away from machine.**
- 14) When polishing parts – **Remain behind proximity barrier.** Ensure the piece to be finished/polished is pulled out of chuck far enough so that the area being finished/polished is a safe working distance away from rotating chuck.
- 15) Shut power supply **OFF** to motor before mounting or removing accessories
- 16) **STOP** lathe before taking any measurements of any kind
- 17) Turn **OFF** lathe once job is complete – ensure rotation has come to a **complete** stop before removing the work piece
- 18) Put material on pallet, strap securely to remove or use crane/hoist for heavy material
- 19) Clean-up work area and put all tools away

If an emergency situation occurs while conducting this task, or there is an equipment malfunction, engage the emergency stop and follow the lock out procedure

REPORT ANY HAZARDOUS SITUATIONS TO YOUR SUPERVISOR

Guidance Documents/Standards: MB Workplace Safety & Health Act & Regulations:	This Safe Work Procedure will be reviewed any time the task, equipment or materials change and at a minimum of every three years
	Reviewed By WSH Committee: Date: