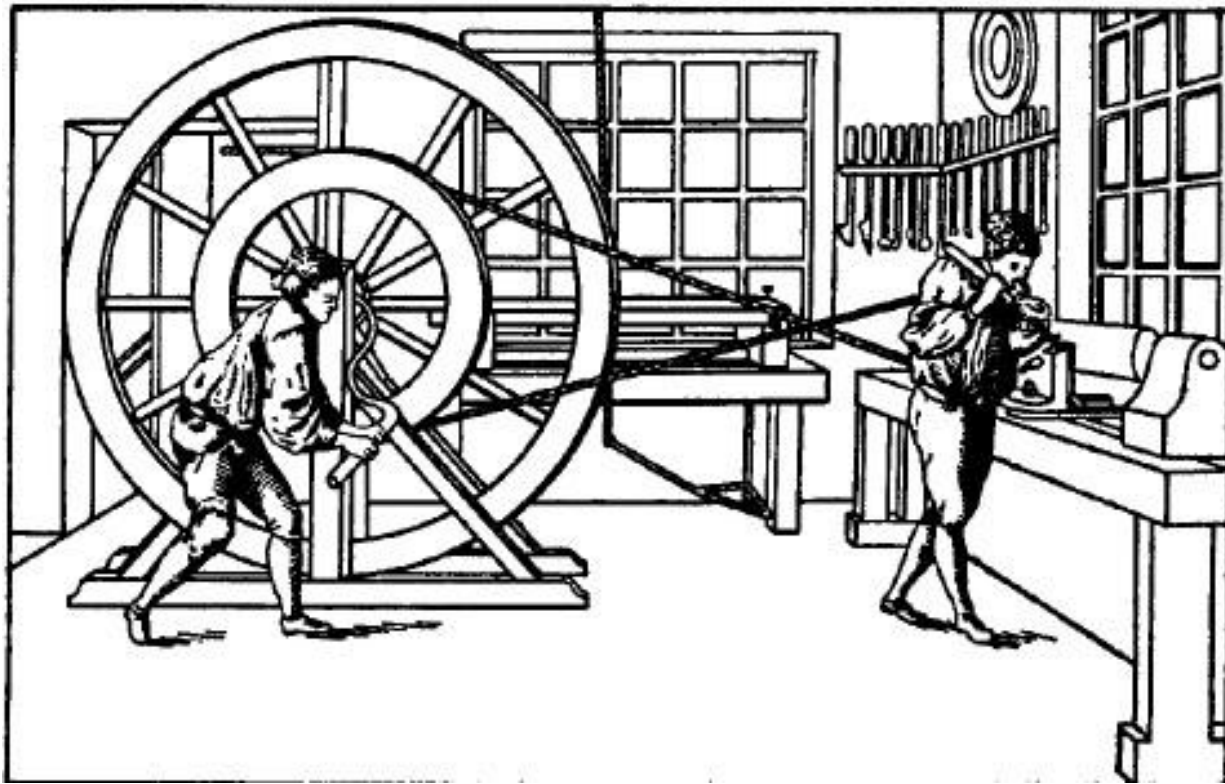


Lathe and Shop Safety



- **The Lathe and tools**
- **Wood and dust**
- **Safety Equipment**
- **Finishes and chemicals**

The lathe and tools

- Always check your lathe before you turn it on
 - Check speed; especially with large pieces
 - Check to ensure wood is held firmly
 - between centers
 - chuck tightness
 - spur drives
- Make sure tools are sharp; let sharp edges do the work
- Check the tightness of the toolrest
 - To the lathe bed
 - To the post
 - Ensure the toolrest is appropriately positioned; rotate the piece by hand to check clearance
- Before you turn on the lathe, step to one side
- https://www.youtube.com/watch?v=X21B_ViwsL0

Wood and Dust

- Always inspect your wood before you turn
 - Check for splits, cracks, and bark inclusions
- Some woods and their dust can cause severe reactions
 - most common is contact dermatitis; a really itchy rash that can spread over your body
 - breathing problems
 - anaphylactic shock- life threatening
- Continued exposure can sensitize you
- Some molds and spores in spalted woods can cause severe reactions
- Flying chips and splinters can damage eyes
 - corneal abrasions; eye lesions

Contact Dermatitis



Eye trauma from an object



Eye trauma from a chemical splash



Safety equipment

- **Best safety equipment is a face shield**
 - prevents chips getting into your eyes
 - able to deflect a piece that comes off the lathe
- <https://www.youtube.com/watch?v=FlhWF4M9CO4>
- **Safety glasses; colored shooting glasses**
 - ensure a close fit
- **Breathing apparatus**
 - masks; best are ones with filters
- **Combination equipment includes a face shield and a self contained breathing system**
- **Close fitting long sleeves**
- **Gloves; weight lifting or golfing gloves provide good protection**



Face Masks, safety glasses, and gloves



Finishes and chemicals

- **Most wood finishes contain volatile chemicals**
 - **Chemicals can be harmful**
 - **Use in well ventilated areas**
- **Cyanoacrylic glue (CA) requires special care**
 - **It's easy to stick your fingers together**
 - **Can be very harmful if it gets into your eyes**
- **Some finishes should be used with respirators**
- **Volatile chemicals in some finishes may affect breathing or your liver**

Better Safe than Sorry

**Comments, Questions, or
Observations?**