

Training/Lathe Use

1. As with all Shed machines – ensure adequate training is received and be 'signed off' on each machine before using.
2. Be considerate to other workshop users when operating – space, noise, dust etc
3. **WORK SAFELY AT ALL TIMES.**

Mains supply - Ensure switch is OFF before/during the following:-

1. Setting up the lathe speed - as pulley belts need to be physically moved! (Not a problem on modern variable speed machines).
2. Moving the small yellow mobile lathe – also ensure that the lead is not a trip hazard.
3. Screwing the chuck on or off.
4. When not in use.

Safety First!

1. Wear the face shield provided (goggles at least!)
2. Use dust mask on fine work and/or sanding.
3. Use the vacuum cleaner when sanding/ finishing (ask for a buddy to hold nozzle under work.)
4. Ensure workspace is free of trip hazards – obstacles, cables etc..
5. Large pieces – operator and other shed members should always stand clear upon start up.
6. Unstable work piece? – turn off lathe immediately and adjust work/tailstock etc.

Setting up work on lathe

1. Set the correct speed for the job. See job size speed table below. The safety door covers should isolate the power BUT still ensure that the Mains switch is Off! Large motor pulley to small spindle pulley is faster speed.
2. If using chucks, ensure located hand tight on screw thread of drive (they tighten with use). Also use a nylon washer between chuck and drive head (aids dismantling).
3. Chuck jaws need to be tightened onto the work piece using the appropriate Allen/chuck key provided.
4. Work piece needs to be centred as best as possible to prevent undue wobble/vibration before cutting begins.
5. Using the tailstock – ensure that it and the adjusting centre is tight into wood – LOCK BOTH TAILSTOCK AND TAIL CENTRE cams before starting lathe.
6. Starting the lathe – face shield down and stand clear!

Wood Turning Techniques

- Always use sharp tools!
- **Always keep the tool on the rest!**
- Present chisels slowly.
- Concentrate without distractions
- Keep feet apart and long tool handle supported against body – body moves to control the cut.
- Check security/tightness of workpiece throughout job, chuck jaws, tailstock and centre cams

After work session

1. Dismantle work, chuck, centre pieces etc and store away parts and chisels safely and tidily.
2. Clean up – brush down lathes, firstly dustpan bulk into bin then use vacuum for remainder of dust.

Job size speed table – rpm (Adjust to nearest for shed lathes)

Faceplate/Bowls	Thickness	Thickness	Spindle Turning	Length	Length
Diameter	Up to 2"	Over 2"	Diameter Thickness	Up to 12"	12" to 14"
Up to 8"	1,250	1,000	< 2.5"	2,500	1,750
8" to 12"	1,000	750	2.5" to 4"	1,750	1,250
12" to 18"	750	300	> 4"	1,250	750

Basic rules – Big heavy pieces – slowest speeds, especially when out of balance. Can speed up when piece is under control. Small pieces – use faster speeds.

Tips

Bowl turning

Fit to lathe using either a screw bolt fitting or a chamfered metal face plate (4 small screws).

Also best to use a revolving tailstock centre initially whilst taking off bulk of wood and creating a balanced piece of work. This can then be removed right out of the way to allow room for gouging inside the bowl.