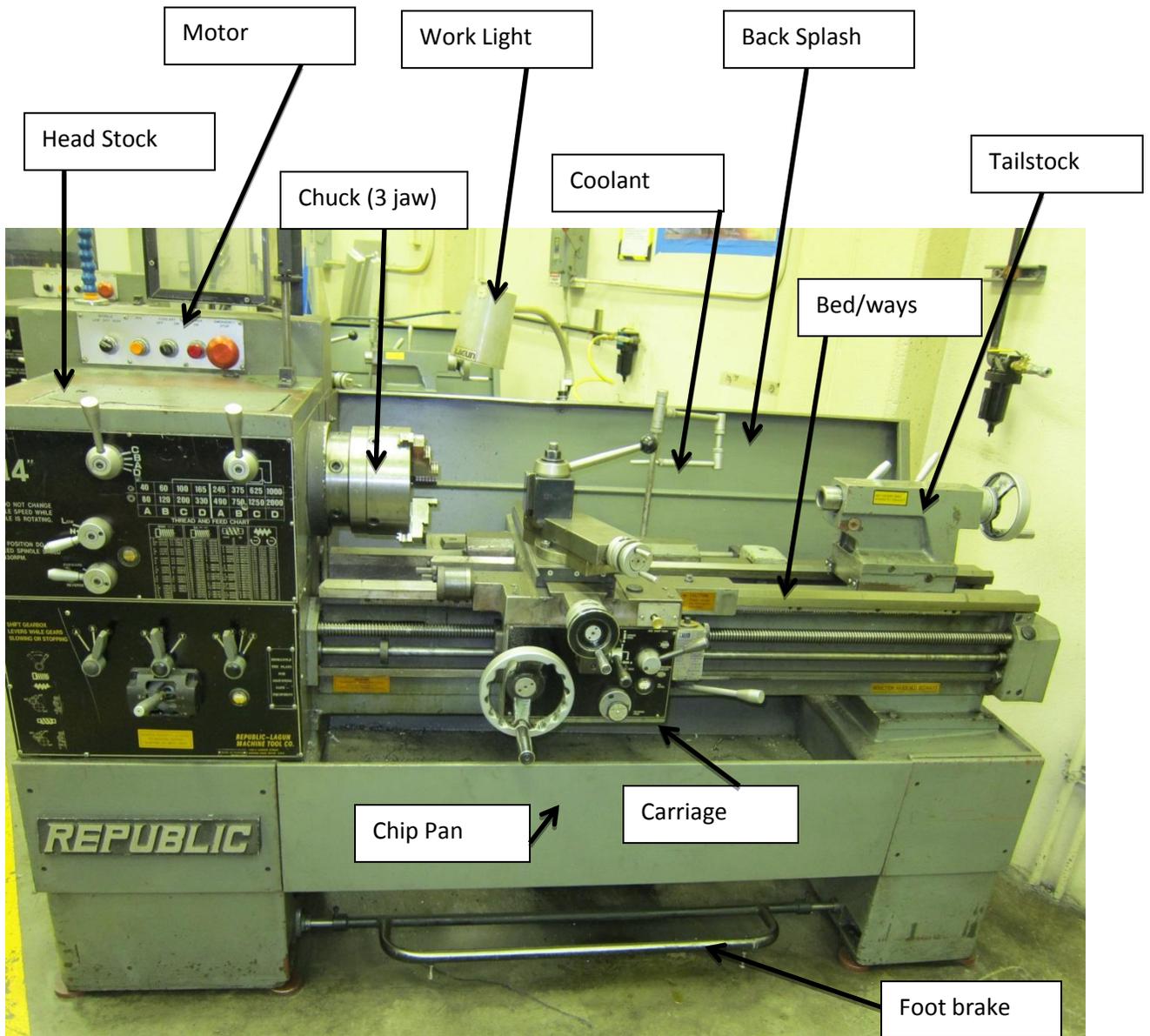


Metal Lathe –Republic (14 inch)

Requirements:

Proper eye protection must be worn—operate only with instructor's permission and after proper instructions have been received.

1. When operating this machine you must wear proper eye protection and pass performance tests.
2. Never leave the chuck key or wrench in the lathe chuck. It can be overlooked and easily thrown, causing an accident.
3. Be sure that the tool posts, tail stock, compound, cross slide and saddle part of the under carriage will clear any rotating part during the full length of the turning project you are doing.
4. Place hands on the controls or at your sides away from the proximity of the spinning part.
5. Make sure the work is secure and the lathe is set at the correct speed and feed rate before you start.
6. Understand how to inspect that chucks are mounted securely to the spindle.
7. Inspect that the tooling is secured to the tool post and properly aligned with the work.
8. Bring lathe to a complete stop before reversing or changing spindle speeds.
9. Remove tools from the holder and back the tool post away from the work before you begin to file or polish.
10. Remove chips with a fox tail brush, never by hand.
11. Do not stop a lathe chuck with anything except a foot brake if available. Otherwise allow it to coast to a stop.
12. Confine loose clothing, long hair and remove jewelry.
13. Support long work at both ends before attempting to cut.
14. Have instructor check all set ups for turning in the lathe before machining starts, especially on never before done parts. Use deflector shields and chuck guards when appropriate.
15. Sweep up the surrounding area and wipe down machine when your work shift is over.
16. Disable power to the lathe to avoid accidental turning on the spindle when changing chucks or performing other maintenance operations.





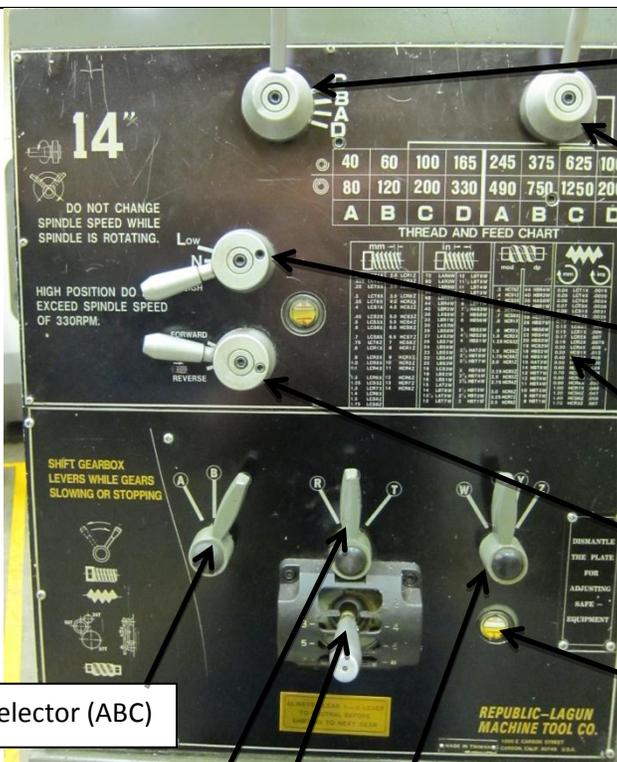
Low/High Speed Motor

Jog button for moving spindle in controlled amounts

Emergency Switch

Power on- indicator light

Coolant on/off Switch



RPM-Speed Selector column (ABCD)

RPM-Speed Selector table 1 or 2

Carriage travel selector low/high

Feed/threading selector chart

Carriage/cross feed direction

Oil sight glass

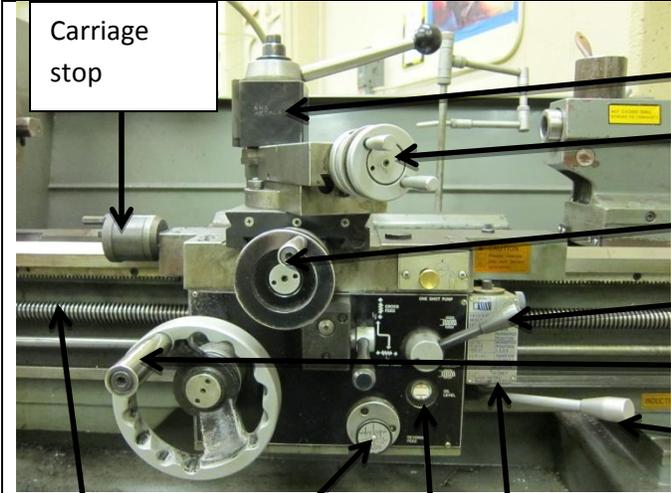
Feed selector (ABC)

Feed Selector (RST)

Feed Selector (12345678)

Feed Selector (WXYZ)

Letter/ number combination are use to set feed rates listed in selector chart



Carriage stop

Tool Post

Compound crank

Cross Feed crank

Half-nut lever

Longitudinal crank

Spindle on/off -reverse lever

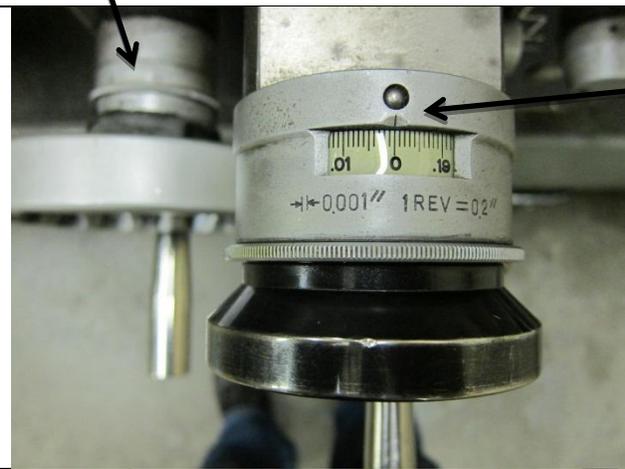
Lead Screw

Feed reverse

Thread indicator

Oil sight glass

Long Feed dial each space= .010"



Cross feed dial each space= .001"



Ram lock

Tail stock lock

Tail stock crank-calibrated

Tail stock ram

