## A Vacuum System Diagram

JD Combs Sr A.K.A "<u>JD Combs Sr</u>"

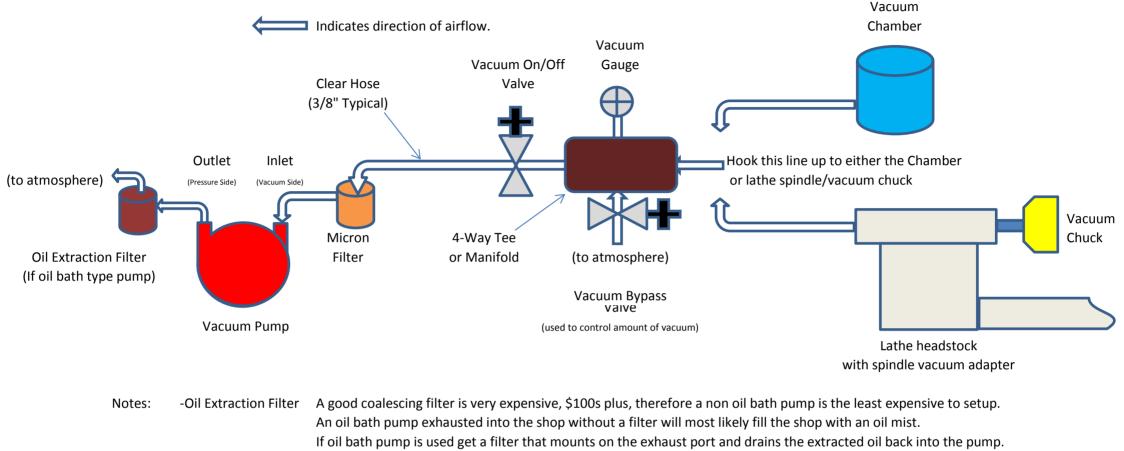
This tutorial was downloaded from

http://www.penturners.org

The International Association of Penturners



## TYPICAL VACUUM PUMP SETUP FOR A VACUUM CHAMBER OR A VACUUM CHUCK SYSTEM



-Oil Pump Dry vane pumps provide enough vacuum, typically 26"hg, plenty for vacuum chucking.

Oil bath pumps are more likely to be used for wood stabilization, they can generate up to near 30"hg or near perfect vacuum. The cubic-feet/min ratings determine how fast you will reach desired vacuum. Higher ratings can offset leaks in a system.

-Air(micron) filter Many wood workers use automotive inline gas filters or oil filters.

Typical micron filtration 2-5 microns.

-Valves General purpose 1/4" to 3/8" not ball valves found at your local hardware or plumbing supply work great.

-Vacuum Gauge Amazon about \$6-\$10

-Hose, Tee, fittings Found at your local hardware or plumbing supply work great.

Standard air type quick-disconnects make great connections especially at the chamber or spindle interface.

-Vacuum Chamber Can be purchased online, some examples can be seen at TurnTex Woodworks, operated by our own MesquiteMan.

I built my own out of a 10" PVC pipe coupling and a 1/2"x12"x24" piece of clear poly carbonate.

-Spindle adapter Another item that can be purchased online, examples can be seen at "jtturningtools.com/vacuum-adapters".

& vacuum Chuck For my Jet 1642 I made the spindle adapter out of a brass fitting and a sealed bearing, the chuck out of faceplate and PVC.

-Optional A vacuum reservoir can be added to stabilize the amount of vacuum, especially useful on a "tight" system(non-leaking system).