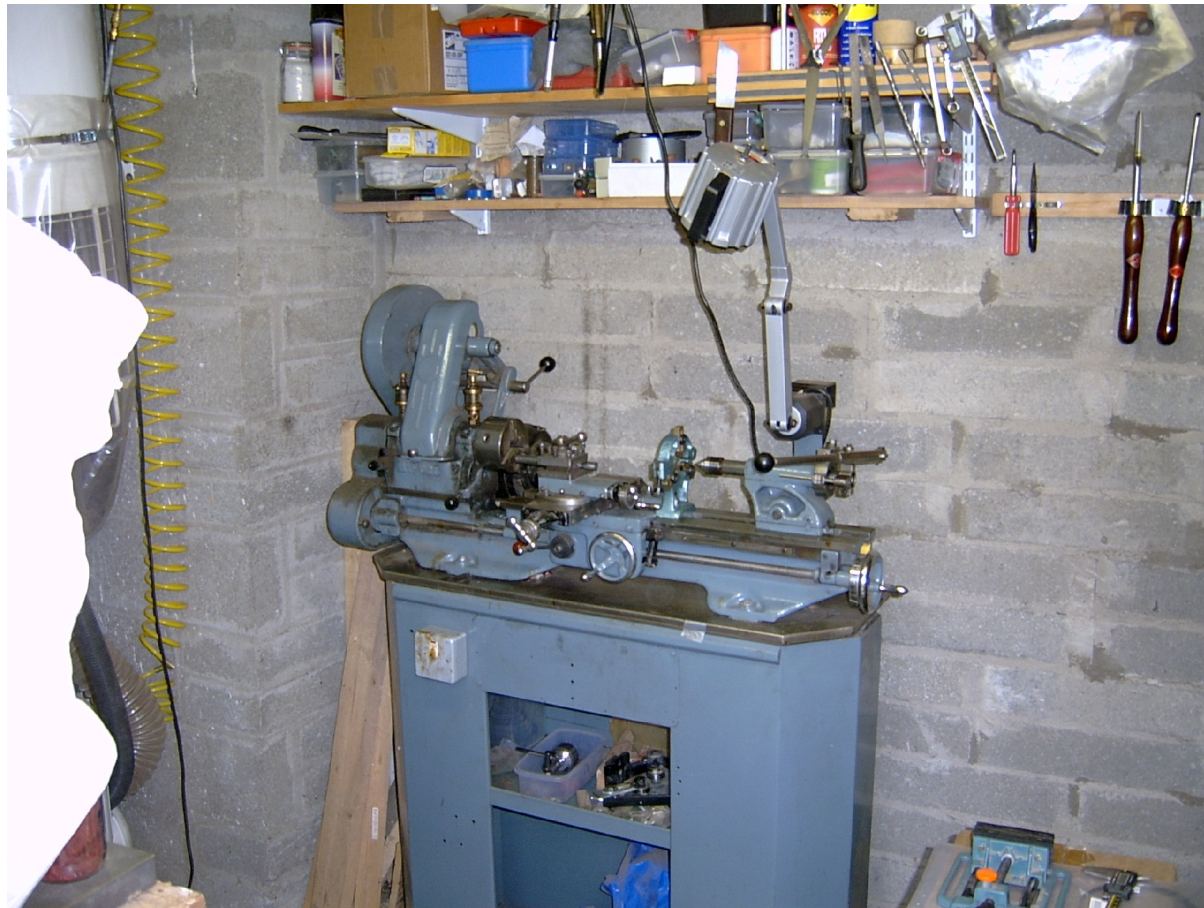


setting up a workshop

bill's list



Lathe

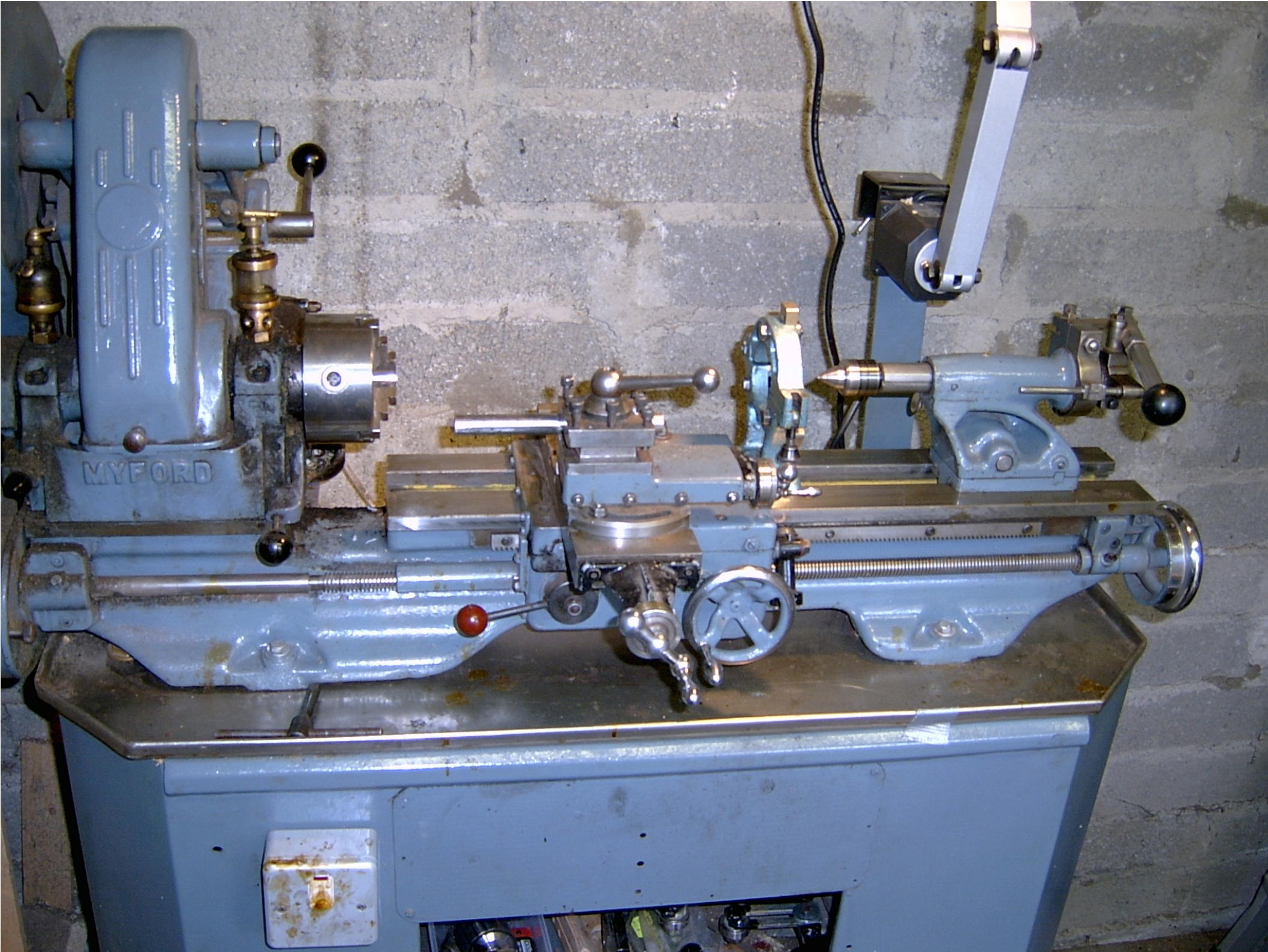
- metal lathe
- woodturning lathe (optional, says Bill...)
- top speed and swing over bed not important
 - slowest speed is important
 - cross-slide important
 - sturdiness and alignment important
 - hollow headstock important
 - hollow tailstock helpful
 - 18" between centres about minimum

lathe accessories

- variable speed (pulleys/gearbox at a minimum)
- belt drive has advantages
- cross-slide and tool holder
- chucks
 - 3 jaw self-centering and 4-jaw independent
 - collet chuck
- tailstock
 - live center, half-center nice
 - lever attachment nice

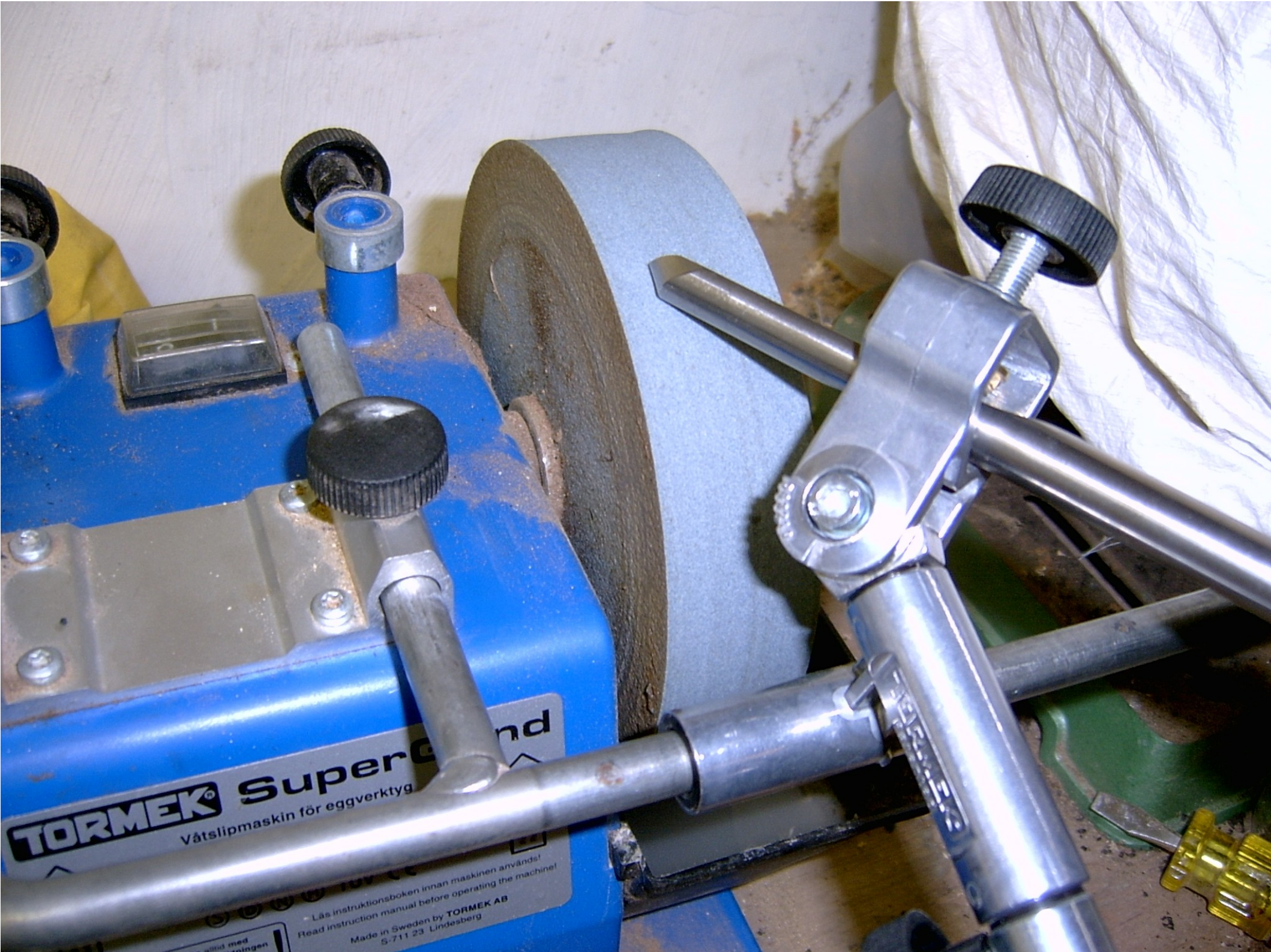
lathe accessories

- quick-change or rotating toolpost helpful
- fixed steady (for boring) nearly essential
 - 3-point OK for harder timbers, rollers good for larger pieces like mainstocks
- tailpiece chuck
- centre drills
- tool steel blanks for cutters and boring bars
- parting tool and parting tool holder
- hand turning rest



other basic machine tools

- bandsaw
 - wood and soft metal capability
- pillar drill
- grinder
 - I prefer a wet grinder, with sharpening jigs
- small belt or bobbin sander
 - can get away with foam sanding disc on pillar drill
- polishing gear
 - again, can use pillar drill



TORMEK® Superend
Våtslipmaskin för eggverktyg

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Read instruction manual before operating the machine!

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pneumatic drilling

- gun drills for drone bores and step-drilling
- compressor
 - 90/110 psi, >3 cfm and/or large reservoir
- air hose and couplings



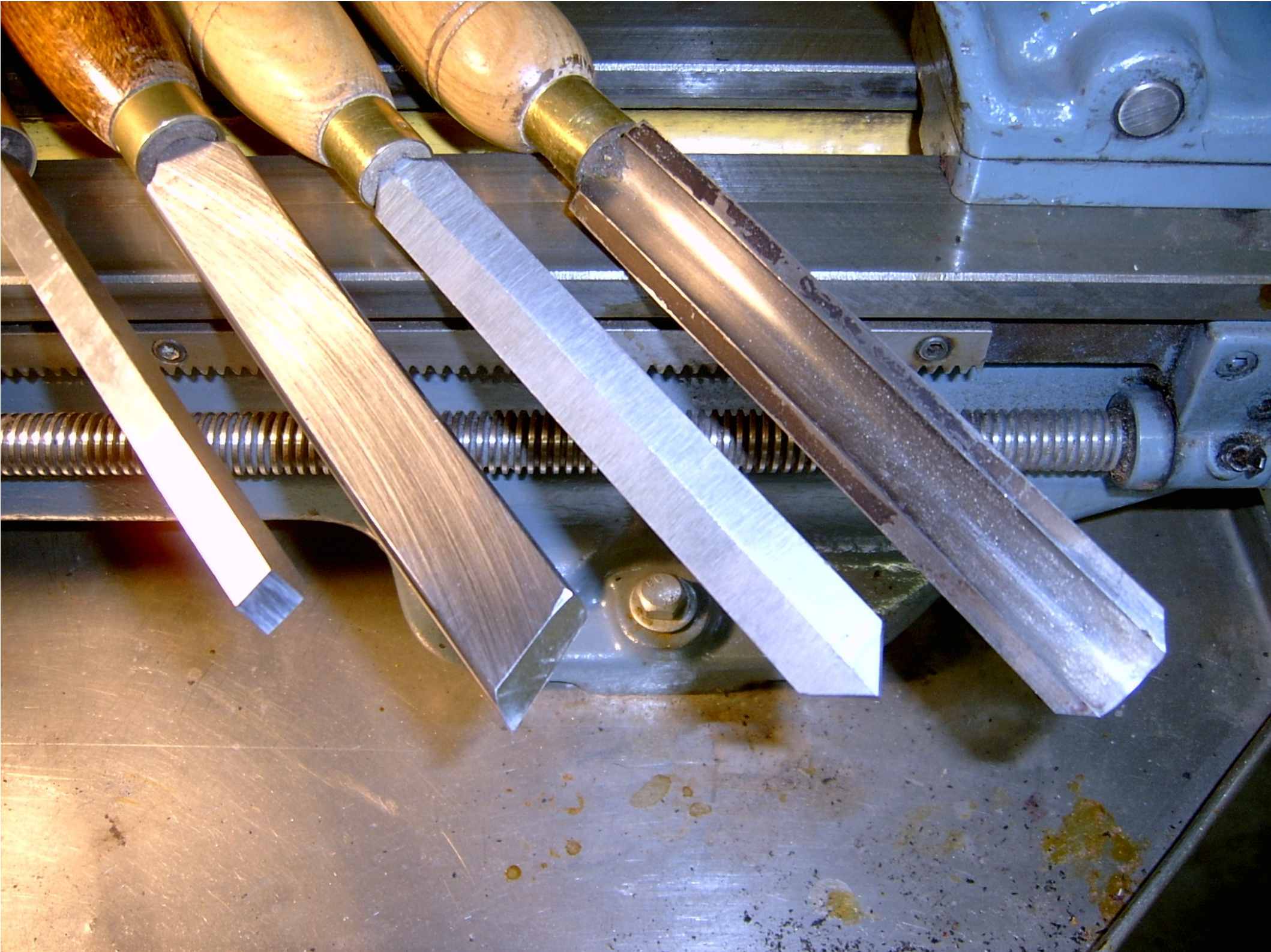
key slots, etc.

- spindle mounted on lathe crossslide
- can use flexi-shaft tool, with cross-slide clamp
- key slots can be cut by hand with chisels, but it's tricky



woodturning tools

- essential chisels
 - 1" roughing out gouge
 - 3/8" bedan/parting tool
 - 1/2" spindle gouge
 - 1" skew
 - narrow parting tool
- nice to have:
 - round cove tool (you can make this)
 - triangular tool (you can make this, too)
 - more parting tools/gouges
 - scrapers, bead tools, etc. (you can make these)





woodturning

- abrasives
 - papers
 - “0000” steel wool
- finishes
 - shellac
 - linseed oil
 - carnauba wax blend (“woodturner's stick”)

metalworking

- bench vise, clamps, hammers, etc.
 - smooth vise jaws and rawhide hammers
- files (single cut are nice), snips, etc.
- small rolling mill and anvils helpful
- small milling machine with end mill/collet
- torch (butane will do, propane a bit better)
 - brazing rod/'hard' solders
 - flux and pickle
 - heat resistant surface (I use barbecue 'lava rocks')



health and safety

- face shield
- safety glasses
- mask or “air helmet” (prefer belt-mounted)
- chip extractor/vacuum
- dust filter
- hearing protection
- latex gloves (not on the lathe, though)
 - faster lathe speeds much more dangerous
- ventilation issues – brazing, glueing, etc.



supplied with accessory kit



other

- bellows
 - planer/thicknesser for making paddles
 - router + table for stitched bellows
 - orbital sander useful
- timber storage and seasoning area
 - hygrometer important
- measurement tools
 - large vernier calipers/rule
 - small vernier nice for workshop
 - accurate micrometer
- most smaller tools will be custom-made
 - reamers, mandrels, jigs, clamps etc.