Below are a number of images showing my lathe CNC conversion. It is still "In-progress" and will be for a while. I'm still having a battle over what to do with the X-axis.

Initially I thought about just using a Sherline leadscrew and stepper mount to drive the Z axis. If I use the Sherline stepper mount and leadscrew it will be a pain to use the lathe in manual mode. I'm currently thinking of using a couple of timing pulleys and mounting the stepper to the left of the carriage. That way, by removing the timing belt I can use the lathe manually.



The lathe is mounted on to a 1/4" aluminium plate 24" x 10.5". The dimensions were as I found the plate in the cut-off bin at Alcan. The riser block beneath the lathe is 5.5" x 2.5" x 1"

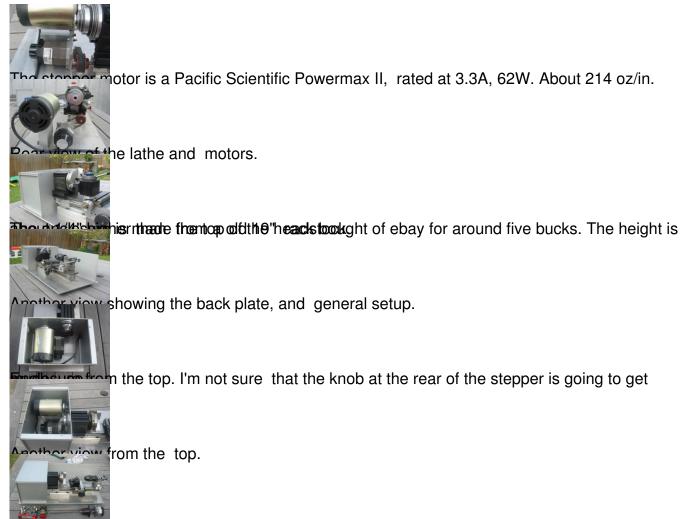


The leadscrew I chose is from <u>Knaell</u> I only purchased the leadscrew with2 timing pulleys, not the whole threading kit. The QC tool post is from <u>TS Engineering</u>

I purchased mine from the Little Machine Shop



The spindle motor is a 180V 400W DC motor that is used in an Asian 12x7 lathe. It's mount is fabricated out of aluminium. The tension adjustment is similar to that used on the mill.



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