

# CNC Lathe Control upgrade project

## Gathering up the details needed for a budgetary quotation

With some basic information and a few photos we can quote your control upgrade project. Feel free to expand on your answers as needed. Type into this document or start your own document using these questions as a guideline.

Company : \_\_\_\_\_ Contact name: \_\_\_\_\_

Address: \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_

Zip: \_\_\_\_\_ Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Machine Type: \_\_\_\_\_ Make: \_\_\_\_\_ Model: \_\_\_\_\_  
Horizontal, Vertical, flat bed, slant bed, production, short run, or prototype

**Photos:**

- The overall machine from 2 angles - wide view
- The spindle driver (usually found inside the electrical enclosure)
- The electrical enclosure with the doors open. Depending on space available, it is sometimes necessary to take photos of the upper half then the lower half. That will be fine.
- Tool turret.
- The lube pump, Hydraulic pump, & other support equipment.
- If visible, the X & Z servo motors and the spindle motor. The motor label information is especially useful.

Higher resolution photos are great but try to keep each photo under 1 meg in size. You can reduce the size by zipping up the photos. Each email should be no larger than 2 meg.  
If maintaining the photo file size is too technical then try adjusting your camera resolution in the area of 1024 X768 to 1600 X 1200.

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**AXIS**

Is there more than 2 axis moving? \_\_\_\_\_ If yes explain

What sizes are the servo motors? List as much information as you can find. Usually found on the motor label.

Z axis \_\_\_\_\_ Travel: \_\_\_\_\_  
Servo motor size, Constant torque value, inch pounds/Nm, Volts, Amps, and any other information listed. Dimension of mounting flange and shaft diameter.

X axis \_\_\_\_\_ Travel: \_\_\_\_\_  
Servo motor size, Constant torque value, inch pounds/Nm, Volts, Amps, and any other information listed. Dimension of mounting flange and shaft diameter.

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**Spindle**

Spindle motor H.P.: \_\_\_\_\_ Spindle control: CW/CCW - Programmable frequency control - DC controller  
Circle one

A spindle encoder is required for threading operations. Does this lathe currently have a spindle encoder? \_\_\_\_\_

If not, Will you want to add a spindle encoder? \_\_\_\_\_

Will your machine require spindle (C axis) positioning? \_\_\_\_\_

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When was this machine last run? \_\_\_\_\_ Did this machine run at its current location? YES / No, it was just purchased.  
circle one

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**Specifications:**

Power supplied to the machine. VAC \_\_\_\_\_ single or three phase?  
Circle one

Does each axis have limit switches? \_\_\_\_\_ Are they usable or need to be replaced.  
Circle one

Is there a flood coolant pump? \_\_\_\_\_ If over 1/8 H.P. list the motor's volts, amps & single or 3 phase rating.

Is there a spray mist unit? \_\_\_\_\_ If other than 110VAC solenoid coil list specifications.

List any other services that are to be controlled by the new CNC. Automatic Tool Changer, Bar feed, Part cut off, hydraulic pump, etc. \_\_\_\_\_

Do you have a specific deadline for the completion of this project? \_\_\_\_\_

Comment on your reasons for considering this CNC control upgrade project. \_\_\_\_\_  
Reliability, File size & transfer, need more features, etc.

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We also offer an 8 position Tool Turret that can be added to most medium sized lathes. Is this of interest to you? \_\_\_\_\_

Complete as best as you can then email back to Doug Laursen at [sales@cncmachinesinmotion.com](mailto:sales@cncmachinesinmotion.com) I will review your machine information, then prepare a budgetary quotation and list of control options for you to consider. CNC control replacement is what we do. It is our goal that your machine perform reliably, accurately, and with new time saving features. We work quickly, with most installations and training completed on-site.

Doug Laursen  
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(714) 528-4892  
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After sending, Please phone me to confirm that our office has received your information.