 **CNC Milling Control Worksheet** Page 1

**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. Photos will convey important details about your machine.

Company :      Contact name:

Address:     City      State

Zip:       Phone:       Email:

Machine Type:       Make:      Model:

Type examples: Horizontal, Vertical, Boring, knee, machining center

**Photos: \* \* \* Please Read \* \* \***

1. An overall look at your machine from 2 or more angles - **wide view**
2. The spindle driver (usually found inside the electrical enclosure)
3. 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. **Don’t** shoot too close (include the cabinet walls for visual reference). If I need to read some detail I can zoom in.
4. Photo of the automatic tool changer.
5. Photo of the lube pump.
6. Photos of the axis servo motors and the spindle motor.

**The motor label information is especially useful**.

 Poor lighting in the machine area usually requires a tripod or other support to shoot clear photos.

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|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| [ ]  | 2axis  | [ ]  | 3axis | [ ]  | 4axis | [ ]  | more |

**AXIS**

How many axis are moving?

Does any single axis use 2 servo motors? [ ]  Yes - [ ] No

What sizes are the servo motors? List the information displayed on the motor label or include a photo.

Servo motor size: \_\_

When was this machine last run?

This machine: [ ] Ran at this location - or - [ ] Was purchased and recently moved here

**Specifications:**

Power supplied to the machine? [ ] 110VAC [ ] 220VAC single phase [ ] 220VAC 3 phase [ ]  460-480VAC

The limit switches are: [ ] in usable condition - or - [ ] Please install new axis limit switches.

Length of travel for each axis. Axis 1 is \_ X\_\_\_ axis. Travel

 Axis 2 is \_ Y\_\_\_ axis. Travel

 Axis 3 is \_ Z\_\_\_ axis. Travel

 Axis 4 is \_ \_\_\_\_ axis. Travel

 Axis 5 is \_ \_\_\_\_ axis. Travel



 **CNC Milling Control upgrade project** Page 2

What is the size of the spindle motor?  H.P. or Kw?  List the information from the spindle motor label or include a photo.

Spindle control is: [ ] CW/CCW power contactors only – or - [ ] Variable frequency control (AC motor) – or –

[ ] has a DC speed controller . [ ] Other (multiple spindles, no spindle, ?)

Is there a flood coolant pump? [ ] Yes - [ ]  No If Yes is it over 1/8 H.P? [ ] Yes - [ ] No

Is there a spray mist unit? [ ] Yes - [ ]  No Is it 110VAC solenoid coil? [ ] Yes - [ ]  No

List any other services that are to be controlled by the new CNC Control. [ ]  Automatic Tool Changer,

[ ] pallet changer, [ ] clamps, [ ] hydraulic pump, [ ] 4th axis etc. Describe other controlled devices. Additional details:\_\_

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

**Control installation**: [ ] Customer installed? [ ] Professionally installed? [ ] Some of both?

**What is most valuable for your application**?

Every day machine reliability

Additional machine precision

Additional machine speed

Lowest cost overall

Lowest price today

Needing new features like: large program memory size, improved control and precision, USB or Ethernet

in place of floppy or RS232, simple to use, easy to program, quality support & service when you call.

**Machines in Motion Inc. includes these features with every CNC control upgrade installation.**

Complete this worksheet as best as you can then email it back to Doug Laursen at **centroid.controls@gmail.com**

I will review your machine information, then prepare a budgetary quotation and list of control options for you to consider. We specialize in CNC control replacement. It is our goal that your machine perform reliably, accurately, and with new time saving features. We work quickly, with your new control installation and operator training completed on-site in the shortest time possible.

Doug Laursen

President

Machines in Motion Inc.

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NOTE: If you do not receive our reply within 24 hours it’s very possible that we did not receive your email. After Emailing this form and photos, please phone us to confirm that your information has been received.