

MachMotion

GRINDING MACHINE CONTROL

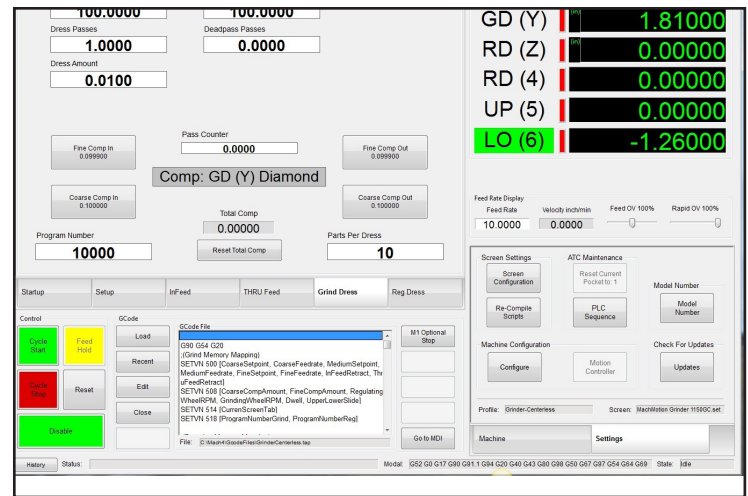


Industrial Motion Control

- Large 17" display touch screen
- Closed-loop, DSP Ethernet motion controller
- Standard Fanuc-style G-code programming
- Macro B programming, parametric G-code
- Rugged control enclosure; dust/liquid resistant

Specialized Conversational Interface - Operator Input

- Every CNC grinder has unique cycles that are needed to meet your demanding production needs, along with your unique grinding process
- A complex grinder process does not mean you need a highly skilled operator
- MachMotion prides ourselves in the ability to give a personalized conversational control solution
- MachMotion team members are versed with mechanical and software design skills, grasping your concepts quickly, helping you bring them to reality



Surface Grinder CNC Machine Retrofit Solutions

- Simple Conversation User Input though 17" TOUCH Screen
- Z & Y Axis Servo Controlled
- X Axis Servo or Hydraulic Controlled
- Automatic Dressing Cycle Macro
- Electromagnetic Interlocks

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Whats Included



ID, OD - Cylindrical and Specialty Grinder Machines Retrofits

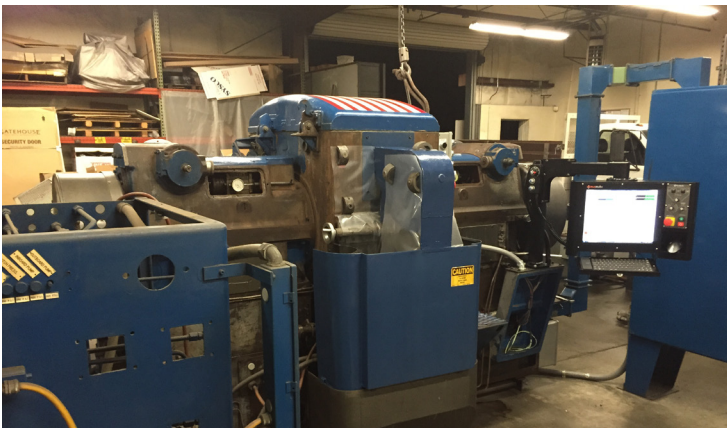
- CNC horizontal or vertical machine type grinders
- Grinding cycles, teach points oscillating grinding, plunge/ multi-plunge, specialty machine cycles
- Profile dressing cycle using a G-code file
- Straight dressing cycle macro
- Probe inputs
- Gap elimination microphone system input
- Share with us your unique grinding process and we will make a simple user interface

Centerless Grinder Control Retrofit Solution

- Up to 6 Axis Control
- 2 Axis Profile Wheel Dress
- 2 Axis Profile Reg Wheel Dress
- Upper Slide
- In Feed Lower Slide
- Operator Screen designed simple for simple production level operator



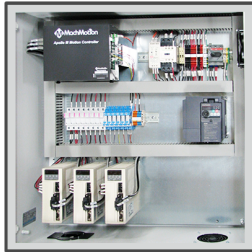
Double Disc Grinder Control Retrofit Solution



- Simple Conversation User Input though 17" TOUCH Screen
- In-feed Axis Plunge control
- User Comp increment buttons
- Interface to Hydraulic part oscillator
- Dress Cycle
- Probe part thickness input

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Pre-wired Enclosure



Spindle Control with VFD



Touch



Wi-Fi



MPG Pendant



Dual Loop

Options

- Ready to bolt on, pre-wired enclosure for your system
- CNC Grinder spindle control with VFD ("spindle drive") up to 125HP
- Dual Loop Scale Feedback Encoder
- Wi-Fi ready
- Touch Screen
- MPG Pendant

AC Servo Motor Options

- High Resolution Digital AC Servo System, Position Repeatability .00001
- Yaskawa servos with 20bit encoder

YASKAWA



TECO ELECTRO DEVICES CO., LTD.



Easy to Install/Operate

- MachMotion turnkey installation services, **GUARANTEED POWER-UP** available
- Install yourself or use MachMotion's qualified technicians
- One-time setup; Easily backup machine configuration
- Part File Import; Network access via Ethernet to offices/other departments

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Whats Included



FREE Control Support Included

- No charge for control support
- Remote login service included; we can see what you see
- Non-transferable
- One year warranty on all parts

Our Guarantee

- Customer service and support is priority #1
- Direct seller; we're your single source for sales and support, no middle man
- US-based manufacturing, sales, service, and support
- Call us and speak to a live person, M-F 8-5 pm (Central)



Grinder Control Retrofits Center-less 6 Axis

- Grinder Control Retrofits Center-less 6 Axis

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We've Got You Covered!

Customer Examples



Cincinnati Milacron



Cincinnati Milacron



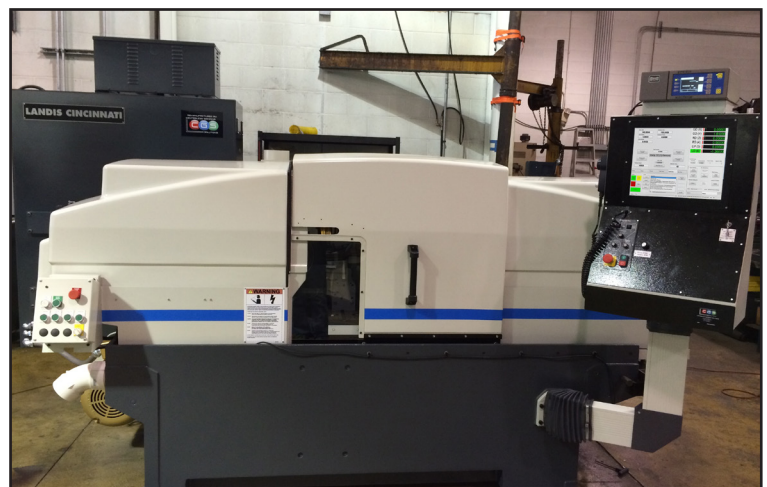
CNC Centerless Grinder Retrofit



5 Axis Centerless Grinder



Cincinnati Centerless Grinder Controller



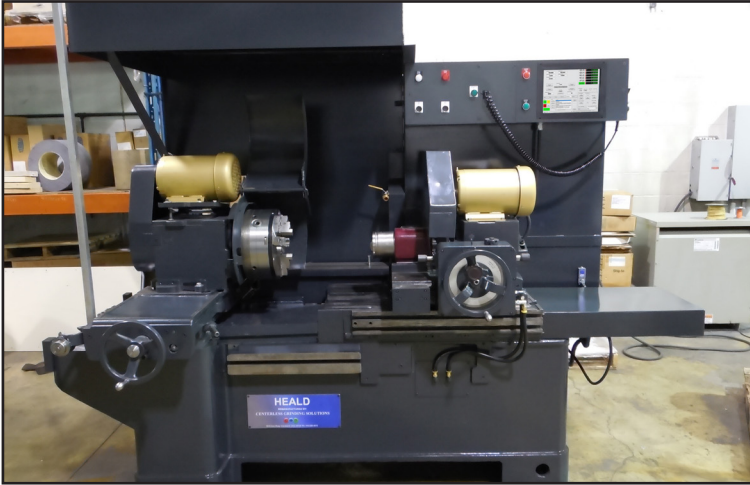
Landis Viking Centerless Grinder

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GRINDING MACHINE CONTROL

Customer Examples



Alloy ID Grinder



Cincinnati OD Grinder CNC Control



OD Grinder CNC Retrofit MachMotion



Besly DH6 Disc Grinder Retrofit Control Package



Chevalier FSG-2460TX Surface Grinder Controller Upgrade



MachMotion Surface Grinder Controller

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Product Details

Kit Model Number	N/A
Control Series	1150G
Screen Size	17" LCD Monitor
Touch Screen	No
Program Storage (Solid State HD)	64GB
Processor	Intell I3.50GHZ
Macro B Programming	Yes
Parametric G Code Compatibility	Yes
Axis Supported	6 & 1 Spindle, 1 Reg wheel
Servo Motors Included (# Axis)	Yaskawa(5)
Default Servo Size	3PC 2.4NM, 1PC 11.5NM
Servo Encoder Resolution	1,000,000 Counts per rev
Dual Loop Scale Feedback Encoder	Optional
Regulating wheel/Work Holding Servo	4.4KW 28NM
Ball screw Mapping	Yes
Main Power Voltage	440V 3 Phase
Inputs	16
Outputs	8
Ethernet I/O For Tool changer	Yes- Ethernet PLC 30/26 I/O + 2 Anlg In
Grinder Wheel Relay Outputs	2
Grinder Wheel Analog Output	1
Grinder Spindle Drive VFD	20HP
Pre-wired electrical enclosure included	48 X 48 X 16
1 year warranty on parts	Yes
Lifetime Technical Support	Yes



Product Details

Remote support via the internet	Yes
Estimated Installation	Call for Quote
Normal Stock item	Avg Lead time 4 Weeks
CNC Control Size	24" (W) X 15.5" (H) X 6.5" (D)
Operating System	Windows
Power Requirements	110-240 VAC operation
Ethernet	Connect to your network and easily transfer files from the office to your computer
USB Ports	1 External USB Port + 1 Internal
Operator Panel	X15-10-01 Operator Panel, with Jog Buttons, Axis Selector, Increment Selector, Jog Speed Selector, Cycle Start, Feed-hold and Emergency Stop Buttons.
Available Power Supply Outputs	5VDC, 12VDC & 24VDC
Digital Outputs	8 Flood/Mist, Coolant, Lamp, etc.
Digital Output Voltage Range	5V-24VDC
Digital Inputs	16 Example: X, Y, & Z Limit Switches, Oilier Refill Warning, etc.
Digital Input Voltage Range	2.5V-48VDC
Safety Features	Opto-isolated I/O & Hardwired E-Stop
Encoder Inputs	6 Differential Quadrature Encoder Inputs. 32-Bit Resolution