Bridgeport CNC knee mill (Series I / V2XT Retrofit upgrade)

Typical CENTROID “All-in-One-DC” CNC control board, reusing many stock Bridgeport components and retaining the stock reversing contactors for spindle motor control.

- **220 vac to 110 vac step down transformer**
- **Main 3 phase fuses** (use a VFD to run on single phase)
- **Bridgeport Electrical Cabinet**
- **Estop contactor**
- **Spare Relay**
- **Spindle Motor Fuses**
- **Spindle Overload**
- **Flood Pump Relay**
- **24 VDC power supply**
- **Servo DC Power Supply Capacitor**
- **Servo motor power step down transformer**
- **Your PC** and Touch Screen LCD-OR-
- **CENTROID M400 Console with CNC PC**
- **Stock Bridgeport servo motors**
- **New Centroid encoders installed on stock Bridgeport servo motors**
- **Spindle Reversing contactor (24vdc coil)**

* Reused Stock Bridgeport parts indicated in RED
* Centroid CNC parts indicated in Blue

* a new AC Inverter (VFD) can also be used to replace the stock spindle reversing contactors and gain programmable spindle speed at the same time and allows to run machine on single phase 220 VAC*
Bridgeport CNC knee mill (Series I / V2XT Retrofit upgrade)

Typical CENTROID “All-in-One-DC” CNC control board, with VFD Spindle control and reusing many stock Bridgeport components

- Reused Stock Bridgeport parts indicated in RED
- Centroid CNC parts indicated in Blue
- Other new CNC parts indicated in Black

- 220 vac to 110 vac step down transformer
- Servo motor power step down transformer
- Main 220 single phase fuses
- 24 VDC power supply
- Spindle Motor VFD
- Spindle Motor Braking resistor
- CNCPC
- CNC PC power supply
- Bridgeport Electrical Cabinet

Your Touch Screen LCD-OR-CENTROID M400 Console

Stock Bridgeport servo motors

New Centroid encoders installed on stock Bridgeport servo motors

Centroid All-in-1-DC CNC control board

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