

CNC Controller



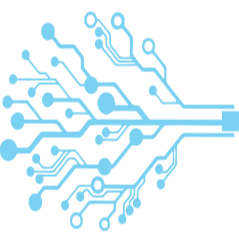
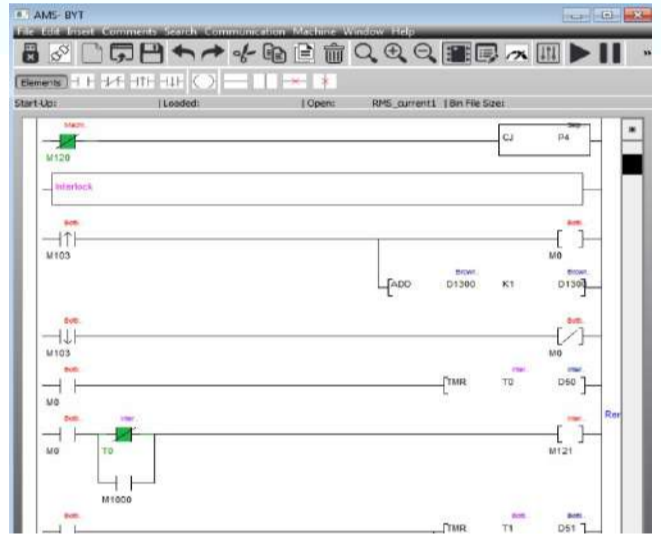
Controller Features: EtherCAT

- PC based linux system with unlimited capacity for program storage in solid state disk.
- 1000 block look-ahead for smooth high speed profile cutting.
- EtherCAT bus AND/OR high speed Pulse & Direction output with high speed encoder feedback supported.
- Expandable IO supported.
- All axis jogging interface via MPG as well as hard buttons.
- Front panel accessible USB interface for program transferring.
- Ethernet access for file transfer over network, remote logging, monitoring and statistical cloud computing.
- remote IO cards with 48 inputs and 32 outputs and high speed quadrature encoder interface for spindle and secondary axes encoders.
- Power outage Safety. No moving parts.



Integrated PLC:

- User programmable PLC with easy to use ladder paradigm for OEM settings.
- Timers and high speed counters for encoder interface.
- Extensive instruction set with special instruction for easy programming of tool and turret changers.
- Fast execution (3 micro seconds per instruction).



GUI and Software



Graphical User Interface and Software:

- Simplified user interface with anchoring and location persistence to increase operator efficiency and reduce operator fatigue.
- Easy to use touch screen user interface and operating panel.
- Smartphone like access requires no manual for operation and maximum 2 level clicks to get to any feature you want.
- ISO standard (rs274D) G-code and M-code supported.
- User defined G-codes and M-codes for setting up special functions.
- Standard canned cycle for dxf, plt and HPGL.
- 3D wire frame mesh display of part program with 3D real time back plot.
- Job out of boundary recognition without dry run or pressing cycle start.
- Easy setup of work coordinate offsets with single button press using both centre distance edge distance.
- Operate and manage files like a PC with easy zoom, swipe, drag features with USB and ethernet file transfer.
- Programmable base coordinate offset.
- Easy setup and measurement screens for setting up tool parameters like tool length and wear offset, diameter offsets with wear information(milling) and nose radius/orientation with front and back angles(turning).
- Jog wheel for quick program scrolling.
- Easy access to file history.
- Advanced diagnostic screens for trouble shooting, repair and maintenance.
- CONVERSE - Simplified conversational programming integrated into ISO G-code with cycles for Face milling, Drilling/ Tapping, PCD drilling, Pocketing, Profiling, Engraving.

