American Kuhne XC200 Navigator® Extruder Controls

American Kuhne XC200 Navigator® control system

The system offers the full power & functionality of our Navigator® control system for one or more extruders in simultaneous operation. The HMI is via a panel or optional swing-arm mounted screen map with integrated hard-wired Estop, Start, Stop, & Reset pushbuttons. Capable of a broader range of monitoring, control, & diagnostics than the XC100, the system offers intuitive navigation, easy to understand graphical displays of controls, status & alarms along with integrated machine documentation.

Monitor and Control Functionality:
• Closed loop barrel PID heat/cool control
• Clamp and die zone control
• Heater burn-out detection/alarm
• High temperature alarm
• Melt pressure monitor with dual alarms
• High pressure shutdown
• Melt temperature monitor
• Soak timer/cold start interlock
• Hour meter
• 7 day timer
• Extruder screw speed control
  (start/stop, speed display, amp display)
• Alarm history, 365 days
• Security access manager
• Recipe manager
• Trending of any parameters that are monitored & controlled
• Remote diagnostics
• Integrated, real-time I/O diagnostic

Hardware and Software:
• 15.6” Beckhoff wide-screen touch display
• Panel mount
• Beckhoff Industrial PC & I/O
• Fully integrated safety I/O
• Power back-up
• Ultra high speed real-time Ethernet field bus system (EtherCAT)
• InduSoft HMI software

Options:
• Heater current monitoring
• Melt pressure control
• Melt pump control
• Multiple extruders (up to 2)
• 21” Beckhoff touchscreen
• TwinCAT Scope View charting & analysis tool
• Predictive maintenance monitoring
• OPC UA Interface
• Production monitoring/shift report
• Bar code scanner
• Electronic signatures
• FDA 21 CFR Part 11

ULTRA Extruder with 15.6” swiveling touchscreen