



BEAMLOGIX and SIBEAM Control System Solutions



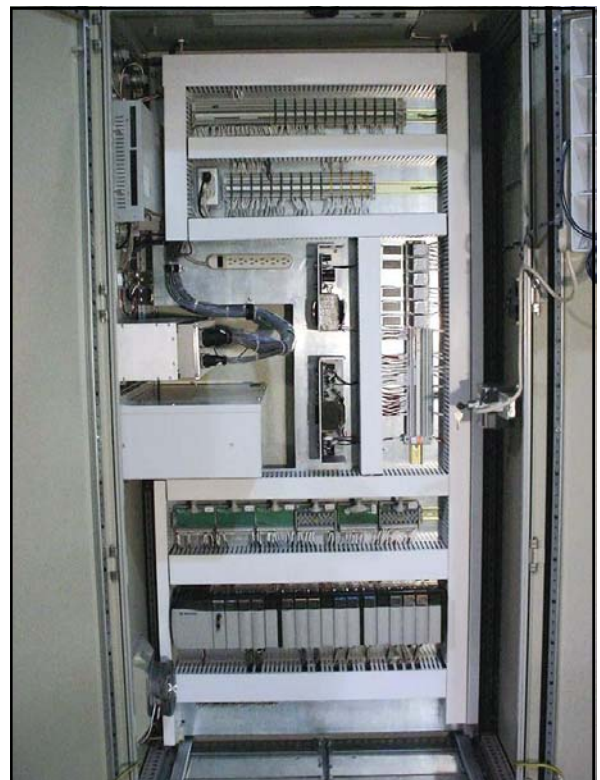
PCT Engineered Systems has responded to our customers' requests and developed the BeamLogix and SIBeam control system solutions for BroadBeam® electron beam processors. The original custom circuit boards have been replaced by PLC-based control systems. The BeamLogix system employs a Rockwell Automation ControlLogix PLC. Customers who prefer the Siemens S-7 PLC can choose the SIBeam system. Both solutions are available on new BroadBeam machines or as an upgrade kit for existing machines.

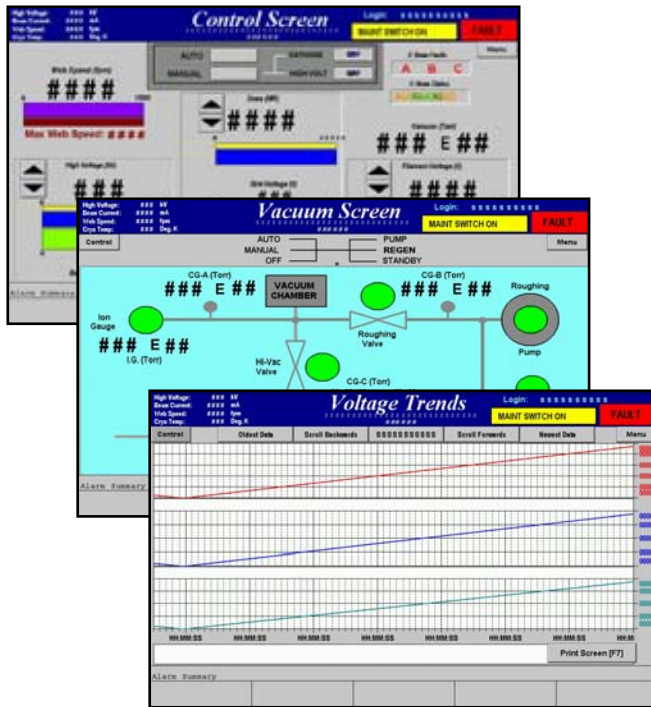
An enhanced operator interface station is also provided as part of each system. The controls and operator screen are mounted in a compact, free-standing enclosure. For the upgrade kit option, PCT also provides field service support for re-commissioning your machine and training of your operators and maintenance staff.

Control Enclosure

The control enclosure is assembled and tested prior to shipment. The controls provided include:

- PLC System including CPU, Power Supply, I/O Modules, and Ethernet Communication Module
- Sub-Rack with Control Boards for:
 - Control Line Transformer
 - HV Servo
 - Filament Control
 - HV Reference and OC
 - Dose Rate
- 15" (380 mm) Operator Interface Screen with Keyboard and Mouse
- Hour Meters for Total Machine Run Time and Filament On Time
- E-Stop Pushbutton
- Key Switch for Resetting Timers
- DC Power Supplies
- Control Relays, Fuses, and Terminal Blocks





Enhanced Operator Interface Screens

The operator screens provide a detailed view of the machine's operation. Critical information, such as High Voltage, Beam Current, and Fault Status is displayed in the header on all screens. An online help system, including procedure documentation, training videos, and machine schematics is also available. The screens supplied include:

- Main Machine Control
- Auto Conditioning Operation
- Vacuum System Status
- Thermal Condition Monitoring
- Trending of Voltage, Current, Vacuum, and Temperature
- Fault Status

Benefits

The BeamLogix and SIBeam systems are designed to deliver more value for your investment in electron beam technology. You will experience fewer unscheduled outages for troubleshooting machine operation because your technicians will have access to the PLC code. Operators of the machine will benefit from the additional information available on the display screens. The upgrade kit can typically be installed during a routine maintenance outage.

Our Customers Say....

"Because the upgrades are based on a PLC operating system, we can now troubleshoot and trend problems, which the old embedded controller couldn't do."

For further information and current pricing, please contact us.



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