

Legacy Support and Upgrade Experience

With over 30 years of project expertise in the metals, films, and custom automation industries, PCT installed the exact types of legacy equipment that now need support or upgrading. With the benefits of experience and continual exposure to the latest technologies, PCT is well equipped to support our customers' efforts to reduce the risks of relying on obsolete technology. Listed below are the types of equipment with which PCT is experienced, as well as selected upgrade projects PCT has completed. If you have questions about our ability to handle your old equipment, give us a call, and we'll give you an honest assessment of the options available.

Equipment PCT Supports/Upgrades

◆ PLC

- Allen-Bradley: PLC-2/3/5, PLC-5/VME, PLC5-250, SLC-100/150, SLC-500
- Reliance: DCS5000, Automax v2/3/4
- Siemens: S5 and S7
- GE: Series 6, 90/70, 90/30

◆ AC and DC Drives

- Allen-Bradley AC: 1352, 1336, 1336 Plus, 1336 Plus II, 1336 Force, 1336 Impact
- Allen-Bradley DC: 1395, 1397
- Reliance AC: GV3000
- Reliance DC: Flexpak, Maxpak, Maxpak Plus, Maxpak III, Flexpak 3000, UDC/PMI
- SSD/Eurotherm/Parker: 590 and Drive Link
- ABB: DCS800

◆ HMI

- Allen-Bradley: ControlView, Panelview (all versions), RSView, RSView32, RSView SE
- Reliance: Sigma
- FactoryLink: DOS, OS2, NT, and Windows versions

◆ Proprietary Networks

- Allen-Bradley: Data Highway, Data Highway Plus, Remote I/O, DeviceNet, ControlNet
- Reliance: DCSNet, Remote I/O
- Siemens: Profibus
- GE: Control Signal Freeway, Control Signal Highway, Genius I/O

◆ Motion Control Software & Hardware

- Allen-Bradley: IMC (all versions), GML, 1394
- Reliance: PCS-3000 Motion Controller

Select Project Experience

◆ 3 Stand Hot Mill*

- 3 Rack Automax system replaced with a single Rockwell Logix Rack
- Universal Drive Controllers (UDCs) and Power Module Interface (PMI) racks replaced with Rockwell DC front-ends (SARs): 3 700V, 2000A DC drives and 2 500V, 700A DC drives
- DCSNet and Rail I/O replaced with Ethernet and Logix I/O
- Level 2 gauge and shape control system (MARAS) supplied by MDS and connected to Automax replaced by Ethernet/IP to Logix (new Level 2 system supplied by others)
- See case study *Aluminum Hot Mill*

◆ Paint Line*

- Multiple Automax racks and DCS Networks replaced by single Logix rack and Logix I/O with Ethernet communications
- FlexPak 3000 drives in a load sharing configuration replaced by PowerFlex DC drives with load sharing control in Logic processors
- Hardwired operators and ASCII terminal HMI replaced by iFix HMI
- See case study *Aluminum Paint Line Upgrade*

◆ Aluminum Degasser System*

- Replace Siemens S5 Controller with small Rockwell Logix controller and I/O

◆ 2 Stand Cold Mill*

- Replaced multiple rack Automax system (DCSNet, ASCII HMI) and Maxpak drives with Logix rack, Ethernet I/O, and PowerFlex DC drives
- Replaced equipment in stages during customer-planned shutdowns to minimized downtime and risk

◆ Film Processing Line*

- Reliance DCS 5000 replaced with Logix processor, Ethernet, and Logix I/O
- ASCII HMI replaced with PanelView Plus HMIs
- Reliance-Japan DC drives (DDS-TL II) upgraded to AC motors and drives

◆ Film Casting Line*

- Upgraded Reliance turret winder system to Logix control and Rockwell drives
- Interfaced the new Logix rack to DCS 5000 system *via* hardwire and DCSNet-to-Ethernet converters

◆ Numerous Line Upgrades*

- Upgrades from old Allen-Bradley Systems to current Rockwell systems
 - PLC-2/3/5 and SLC-100/150/500

* Designates a repeat customer