

PROCESS CONTROL & Engineering

Extensive Capabilities

Electrical Design

- P&ID Review & Process Design Evaluation
- Control Panel Design & Hardware Specification
- Systems Safety Design (Category 3) for Powered Equipment (Electrical, Pneumatic, Hydraulic & Robotic)
- Complete Electrical CAD Drawing Packages
- Electrical Bid Packages (Written scope of work, conduit schedule and routing plan)

Systems and Technology Integration

- Variable Frequency Drive (VFD)
- Servo Drive
- Communication Protocol Implementation
- Barcode Scanning & Vision Systems
- Radio Frequency Identification (RFID) Technology

Programming and Development

- Control Systems Methodology Review
- Programmable Logic Controller (PLC)
- Human Machine Interface (HMI) Programming and Development
- Historian & Database Applications

Machine and Equipment Testing

- Factory Acceptance Testing (FAT) / Site Acceptance Testing (SAT)

Startup and Commissioning

- Electrical Installation Validation & I/O Checkout
- PLC Program & HMI Functional Testing and Approval

Project Management

Support and Troubleshooting

- Operator & Maintenance Training/Documentation

Industries

Food & Beverage

Oil & Gas

Agriculture

Water and Waste Water Treatment

Machine Safety

Biotech

Pharmaceutical

Cellulose Insulation Manufacturing

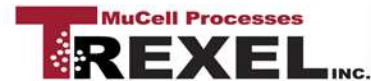
Chemical

Automotive

Clients



SencorpWhite



Certifications



System
Integrator
SIEMENS



Member of

60574 E. Twisted Snaffle Pl. Tucson AZ 85739

PH: 520-9087275

EMAIL: icastro@pcandengineering.com