The FACTS Total Line Control (TLC) System integrates and centralizes control of the entire process.

Applicable to all Hose & Tube Extrusion Processes

Full Line Integration

**New Lines or upgrades to existing lines**
- Letoffs
- Vacuum Sizing Tanks
- Feeder
- Flaw Detectors
- Volumetric
- Gauging: OD/ID/Wall
- Gravimetric
- Laser
- Extruders
- Ultrasonic
- Melt Pumps
- Pullers/Capstans
- Screen Changers
- Cutters
- Dies
- Windup/Take up
- Knitters/Braidars
- Information Management Systems

**System Features**

**Operator Ease of Use**
- Menu Driven
- Interactive Line Graphics
- Alarm Presentation & History
- Real-Time SQC charts
- Customer Specific Screens
- 17" touchscreen flat panel display
- Trend plotting of **ALL** parameters
- Security System
- Product Code Selections & Admin

**Specialized Displays For:**
- Production
- Quality Assurance
- Management
- Maintenance
- Engineering
- Multi-Language

**Benefits and Payback**

**Quality Benefits**
- Increase Line Speed
- Increase Material Efficiencies
- Increase Quality
- Increase Customer Satisfaction

**Decrease**
- Operator Requirements with a simple interface
- Maintenance Questions
- Scrap by staying on Spec
- Downtime by eliminating obsolete parts

**Start Up/Setup**
- Fast Start
- Consistent Parameters
- Whole Line Coordinated Start-up

**Providing**

**Control/Monitoring of:**
- Feed rates
- Temperatures -- Cold Start Protection
- Speeds
- Pressures
- Tensions
- Positions
- Timing Dimensions

**Heater & Drive Enclosures**

**Information Management:**
- Data Collection & Logging
- Data Analysis
- Production Reporting
- Visualization
- Inventory Tracking

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Additional Control Features

- Real Time Trend Plotting
- Cascade/strategy loop control (configurable)
- PID loop control (configurable)
- Remote Configuration Option
- Master/slave speed coordination (configurable)
- Cold start protection
- Thread/start-up mode
- Failed/broken thermocouple detection
- Alarm/new alarm function
- Advanced math calculations & complex Boolean logic functions
- Transaction & Alarm logging

System Highlights

Only FACTS integrates both control and management of your manufacturing process, equipment and job histories to provide your optimum production efficiency.

**System Setup & Product Codes**
- NO PROGRAMMING REQUIRED
- 100s of Unique Product Codes
- Configurable System Design
- Selectable Security System at All Functional Levels
- Real Time Trend Plots of All Process Variables
- Real Time SQC Charts
- Built in Diagnostic Displays

**Product & Process Analysis**
- Process Analysis and Historical Reporting with the
- **Total Information Manager HOST**
  - Historical Trend Plots & SQC Charts of every parameter
  - Logs for Data, Operators and Alarms

**Support for Upper Level Functions such as:**
- Job Scheduling, Job Tracking, Production Tracking Reports, Raw Material Usage/Reports, Networking Interface to Customer MRP & MIS Systems

**Options**

- Full Line Graphics Operator Interface
- SQC Data Entry & Real Time SQC Display Station
- Support for:
  - Remote HMI stations
  - Bar Code readers & Tag printers
  - DeviceNet, Profibus, Ethernet, etc.
  - Intelligent peripherals requiring complex protocol support
- Melt Pump Control -- Full Interlocks & Auto Prime
- Gravimetric Control, Silo Inventory, Total Resin Consumption
- Production Report Generator
- Target Shifting -- Setpoint Optimization

**Total Information Manager Host System**
- Data collection, graphical analysis of historic data, configuration editor, remote support and interface to plant database systems.

FACTS Inc. is the leader in process control technology for the polymer market. In fact, we wrote the book on extrusion control—literally. For the Society of Plastics Engineers, FACTS penned the chapter on Extrusion Control in the “Guide on Extrusion Technology & Troubleshooting.”

FACTS Inc. routinely provides new and existing process lines with complete electronic control systems and integrated HMI. Controls provided include, but are not limited to: temperature, speed and pressure control; sequence control; drive and heater systems; profile measurement and control.

FACTS Inc. offers you experience at your fingertips with 24/7 support via Internet or modem.

FACTS Inc. provides the tools to control your bottom line. Contact us today.

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