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

Applicable to all Extrusion Elastomer or Plastic Profile Processes

**Full Line Integration**

*New Lines or upgrades to existing lines*

- **Feeders:** Vacuum Sizing Tanks
  - Volumetric
  - Gravimetric
- **Extruders:**
- **Melt Pumps:**
- **Screen Changers:**
- **Dies:**
- **Information Management Systems:** Pullers
  - Material Handling
  - 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**
- Consistent Operation
- Continually Improve Line, not just run it
- Closed Loop Control

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

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

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

**Providing**

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

- Heater & Drive Enclosures
- Information Management:
  - Data Collection & Logging
  - Data Analysis
  - Production Reporting
  - Visualization
  - Inventory Tracking

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**FACTS, Inc.**
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www.facts-inc.com
**Extrusion Profile**  
**Total Line Control System**

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**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  
1000s 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

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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

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**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, Profinet, 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

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**Total Information Manager Host System**

Data collection, graphical analysis of historic data, configuration editor, remote support and interface to plant database systems.

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**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 Inertnet or modem.

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

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