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

Applicable to all Sheet & Film Systems including:
Single and Multi-Layer Sheet, Cast and Blown Film Lines

### Full Line Integration

**New Lines or upgrades to existing lines**
- Lotoffs: Auto Profile Dies
- Feeders: Chill & Embossing Rolls
- Volumetric: Scanning Gauges
- Gravimetric: Pull Rolls
- Extruders: Thermoformers
- Internal Bubble Control: Cutters
- Melt Pumps: Windups
- Screen Changers

### System Features

**Operator Ease of Use**
- Menu Driven
- Interactive Line Graphics
- Alarm Presentation
- Real-Time SQC charts
- Custom Control Screens
- 17” touchscreen terminal
- Trend plotting of **ALL** parameters

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

### Related Products

**Total Information Manager**
- Data collection
- Graphical analysis of historic data
- Configuration editor
- Remote support

**FACTS Total Profile Control System**
- A complete solution including hardware, electronics & software to incorporate scanning sensors, display of measured profiles with optional Automatic Profile Control.

**New Scanning Gauges or Retrofit Existing Systems**
- Frame Controller -- Replace obsolete expensive components

A number of non-contact technologies are available to provide key measurements including total thickness, layer thickness and weight per area.
**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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**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

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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, Profinbus, Ethernet, etc.
  - Intelligent peripherals requiring complex protocol support (e.g. Nuclear or LASER profile gauges, and gravimetric feeders)
  - Melt Pump Control -- Full Interlocks & Auto Prime
  - Gravimetric Control, Silo Inventory, Total Resin Consumption
  - Production Report Generator

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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 Internet or modem.

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

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