

FACTS, Inc.

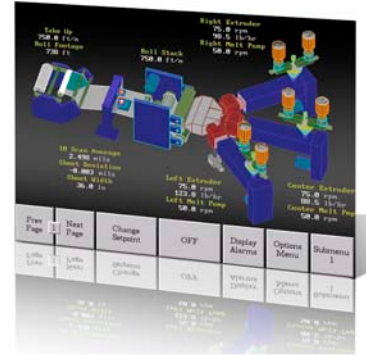
PROCESS CONTROL SYSTEMS

Measure .. Control .. Inform

SHEET & FILM TOTAL LINE CONTROL SYSTEM

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

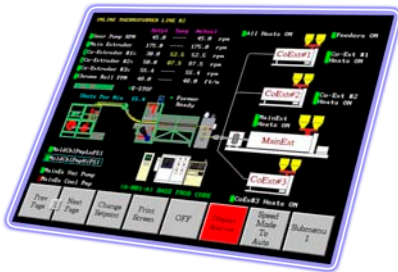
Applicable to all Sheet & Film Systems including:
Single and Multi-Layer Sheet, Cast and Blown Film Lines



Full Line Integration

New Lines or upgrades to existing lines

- | | |
|-------------------------|-------------------------|
| Letoffs | Auto Profile Dies |
| Feeders: | Chill & Embossing Rolls |
| Volumetric | Scanning Gauges |
| Gravimetric | Pull Rolls |
| Extruders | Thermoformers |
| Internal Bubble Control | Cutters |
| Melt Pumps | Windups |
| Screen Changers | |



Providing

- | | |
|---------------------------------------|---------------------------|
| Control/monitoring of: | Heater & Drive Enclosures |
| Feed rates | Information Management: |
| Speeds | Data Collection & Logging |
| Pressures | Data Analysis |
| Positions | Inventory Tracking |
| Dimensions | Reporting |
| Weight | Visualization |
| Color | |
| Temperatures -- Cold Start Protection | |

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 inputs

Specialized Displays for:

- Production
- Quality Assurance
- Management
- Maintenance
- Engineering
- Multi-Language

Related Products

Total Information Manager Host System

- Data collection
- Graphical analysis of historic data
- Configuration editor
- Remote support

FACTS Total Profile Control

A complete solution including hardware, electronics & software to incorporate scanning measurement sensors, display measurement profiles and perform optional Automatic Profile Control.

New Scanning Gauges or Retrofit Existing Systems

- Frame Controller -- Replace obsolete expensive components
- Nucleonic & X-ray sources
 - Weight per area measurement
- Specular Coherence Interferometry
 - Layer & Total Film Thickness
- Laser, Eddy Current & Air Calipers

FACTS, Inc.

PROCESS CONTROL SYSTEMS

FACTS, Inc.

2737 Front Street
Cuyahoga Falls, Ohio 44221

T: (330) 928 2332

F: (330) 928 3018

www.facts-inc.com

SHEET & FILM

TOTAL LINE CONTROL SYSTEM

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



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

Benefits and Payback

Quality Benefits

- Consistent Operation
- Continually Improve Line, not just run it
- Closed Loop Control

Increase

- Line Speed
- Material Efficiencies
- Quality
- 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
- Consistent Parameters
- Whole Line Coordinated Start-up

Optional Software

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 (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

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. This control includes but is not limited to: sequence control, drive systems, both temperature and thickness profile measurement and control, and pressure, temperature and speed 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.

