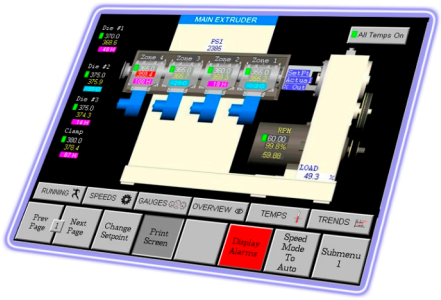
FACTS, Inc.
MEASURE . CONTROL . INFORM

Hose & Tube Extrusion Total Line Control System

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
- Feeders:
  - Volumetric
  - Gravimetric
- Extruders
- Melt Pumps
- Screen Changers
- Dies
- Knitters/Braiders
- Vacuum Sizing Tanks
- Flaw Detectors
- Gauging: OD/ID/Wall
  - Laser
  - Ultrasonic
- Pullers/Capstans
- Cutters
- Windup/Take up
- 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

- -- 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
- Tensions
- Positions
- Timing
- Dimensions
- Heater & Drive Enclosures

Information Management:

- Data Collection & Logging
- Data Analysis
- Production Reporting
- Visualization
- Inventory Tracking

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Hose & Tube Extrusion
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
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

Additional Control Features

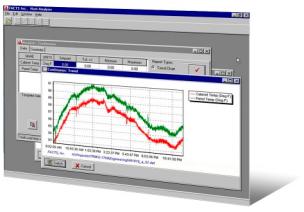
Real Time Trend Plotting
Cascade/strategy loop control (configurable)
PID loop control (configurable)
Remote Configuration Option
Master/slave speed coordination (configurable)
Cold start protection
Thread/start-up mode
Failed/broken thermocouple detection
Alarm/new alarm function
Advanced math calculations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

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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