

# FACTS TCC 5401

## Total Coating Control Systems

### Experienced in Coating Control Systems including:

- Reverse Roll Coating
- Extrusion Coating
- Slot Orifice Coating
- Knife/Blade Coating
- Gravure Coating

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

### Multiple Modes of Operation including:

- Scan Mode: scan and display of web being produced
- Fixed Position Mode: display of the data from a fixed head
- Zone/Lane Mode: enables the display of both zone and lane data

### Specialized Displays for:

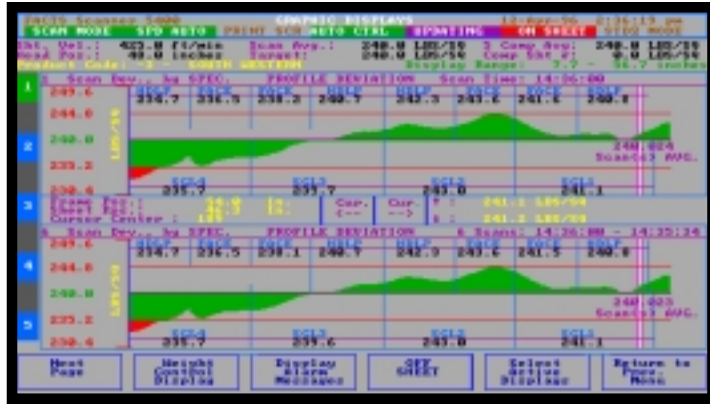
- Production
- Quality Assurance
- Maintenance
- Management
- Engineering

Graphic Charts/ Data Displays Selection include: (10 selectable from over 40 choices)

- Scan Deviation
- Historical Trends
- Text Report
- Single Bar Trend
- Skid or Roll Report

### Operations and Alarm Logs:

- Alarms - 100 Most Recent
- Operator Actions - 50 Most Recent



**Coating Zone Profile Display**

The **FACTS TCC 5401** Total Coating Control System is designed specifically for the integration of scanning gauge measurement and control of coat and web weight or thickness in the machine direction as well as individual cross direction zones for the coating process. The system incorporates a high-resolution color touchscreen for operator command input plus data and graphics display. The **TCC 5401** is operator-configurable, requires no computer skills, and comes as a completely configured software and hardware system for your specific line.

### The application of Total Line Control has resulted in a fast payback as measured by:

Material Savings  
Increased Productivity  
Reduced Scrap

Quality Improvement  
Reduced Downtime  
Reduced Labor

### System Highlights

#### Operator Ease of Use

- Menu Driven
- Profile Displays
- Alarm Presentation

- Touchscreen
- Control Screens
- Custom Displays

#### Single Product Code Setup For:

- Flat & Non-Flat Profiles
- Coating Rolls

- Control Tuning
- Auxiliary Equipment

#### Integration of Scanning and Single Point Gauges:

- All "Intelligent" Scanning Systems
- Any Sensor Technology
- Multiple Manufacturers
- Same Spot Measurement

#### Control Strategy including:

- Optimum Separation of Machine Direction and Cross Direction Variations
- Compensation for Speed Changes and Transport Lag
- Machine Direction Thickness Control or Integration with **FACTS** Total Line Control
- Cross Direction Profile Control

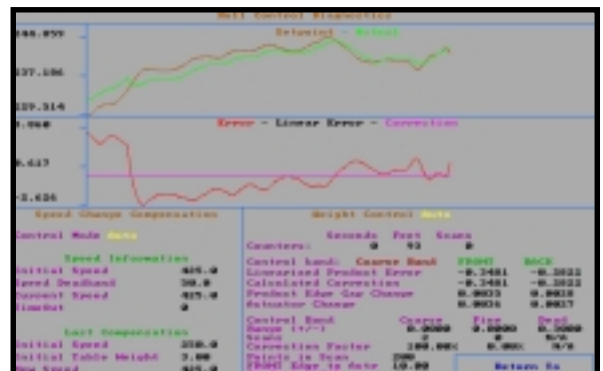
#### Profile Control Strategies including:

- Control to Flat or Non-Flat Targets
- Straight Line "Best Fit" for Error Profile
- Feedforward speed Gap Compensation
- Correction for Geometric Profile to Actuator Relationship
- Interface to Existing or **FACTS** Provided Coater Actuators

#### Remote Station for Harsh Environment includes:

- Environmentally Protected Enclosure
- Protected Operator Membrane Keypad
- Independent Select Operation from Main Console

### Coating Weight Control Display



**Coating Production Report Display**

## System features

### Product Codes

- Up to 150 product codes stored on the configuration disk
- Each product code stores scan parameters, data manipulation factors and display parameters
- Product code editor enables customization of product codes for each product
- Product code data can also be printed on optional printer
- Product code can be created based on current product codes or by editing the initial default values
- Target profile for each product is also saved; this may be flat, a profile that was saved based on scan data, or manually created using the editor

### System Configuration

- Ability to edit and print all configuration parameters
- Configuration of scanner and sensor default values, options, I/O scale factors, and Auto Weight Control parameters and tables.

### Alarm System

- Keeps track of three types of alarms: new, acknowledged and cleared
- New alarms alert the operator to their existence
- Alarm display can be called from all menus

### Operation Logging

- Tracks all system activities that have an impact on modes of operation, editing operations or system problems
- Color coded display for new and previously viewed entries

### Security

- Security structure with 10 levels and up to 160 codes
- Only operations that are not a part of normal operation are secured, i.e. editing or maintenance functions

### Maintenance

- Diagnostic for touchscreen system
- Touchscreen calibration
- Status display for scanner to "5401" communications link
- Ability to force commands to scanner from the "5401" for support purposes
- Scanner system initialization
- Check sample testing

### Accuracy

- .25 to .5% typical, dependent on product, source and detector used
- Accuracy can be quoted for specific applications

**FACTS Total Control Solutions means  
Total Profit Control.**

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## Configuration

- Freestanding NEMA 12 enclosure - environmentally protected
  - Complete power regulation and isolation
  - Chemical purification for corrosion prevention
  - Internal air temperature control through electronics grade air conditioner
- 32 bit processor in a distributed architecture
- Real Time Executive operating system
- Communications support for
  - Remote control or display stations
  - Local or remote printers
  - Bar Code readers & printers
  - Intelligent peripherals such as scales & digitizing calipers
- 17" sealed high-resolution color touchscreen terminal
  - Menu-driven command input and data display, Real-Time SQC charts & Trend plotting of All inputs

## Hardware Specifications

- Environmental capabilities
  - Electrical noise - the supplied line conditioner provides better than 60 db of noise rejection
  - Electrical variation +/- 20%, short-term variations +/- 50%
- Ambient temperature 32-125 °F (0-50 °C)
- Relative humidity - 0-95% non-condensing
- Power Requirements
  - 120 or 220 volts AC nominal, +/- 20% (customer specified)
  - 60 Hz or 50 Hz as specified
  - 2500 VA including optional air conditioner
- Physical
  - Main control cabinet/operator's station - 64"H x 27"W x 28"D
  - High-resolution color touchscreen - 17"
  - Weight: 600 lbs. (Approx.)

## Options

### Total Information Manager TIM 3001NT Host System:

- Off-line data collection and complete analysis for historical data (i.e. trending, SQC charting, X/Y analysis, etc.)
- Complete hardware and software
- Transaction logging of any or all operator activity such as set-point changes as well as logging of all alarms
- Provides full Job or Work Order system support including job sheet presentation to operator at touch screen operator interface

**The *FACTS* Formula**  
**+ Increased Productivity**  
**+ Improved Quality**  
**+ Improved Efficiency**  
**+ Reduced Material Usage**  
**+ Reduced Labor**  
**+ Reduced Scrap**

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**= Increased Profits**