**CALENDER LINE CONTROL**
*FACTS* can coordinate and control the complete calendar line, including all mill and/or extruder feed systems, calender(s), line speeds & ratios, temperatures, tensions, let-offs, and windups.

**ON-CALENDER GAUGING**
*FACTS* offers numerous Gauging Solutions:
- Contact & Non Contact
- Fixed Point & Scanning
- On-Cal 3 & Laser/Eddy Gauges

**THICKNESS SCANNING**
*FACTS* offers multiple types of Scanning Profile Measurement Solutions:
- Nuclear Transmission (basis weight)
- Laser/Eddy (true thickness)
- Wire Balance

**INFORMATION SYSTEMS**
*FACTS* information systems provide off-line data collection, complete analysis of historical data (i.e. trending, SQC charting, X/Y analysis, and management information reporting).

*FACTS, Inc.* is a full range supplier of process control, measurement, and information solutions that offers application expertise to the plastics and rubber industries. Full line control capabilities apply to all continuous processes.
CONTROL SYSTEM HIGHLIGHTS

SIMPLICITY
FACTS’ solutions rarely require on-site service calls. In most instances, you can buy spare parts and do your own maintenance, resulting in substantial maintenance cost savings.

INCREASED PRODUCTIVITY
FACTS’ solutions provide a simpler system without electronics or optics on the calender resulting in calibration and accuracy being maintained longer. Product uniformity is better due to simple gauge design. Operators are also able to run calenders at higher speeds with confidence.

TAILORED TO CUSTOMERS’ NEEDS
FACTS’ solutions provide you with flexible control strategies selected from a comprehensive calender specific library. The control screens are laid out per customer specifications for ease of use.

EXPERIENCE
FACTS’ solutions embody our 20 years of experience in the rubber and plastics industries. We provide you with the process, equipment and industry expertise that results in consistent successful projects. Our experience is at your fingertips with 24/7 remote support via Internet or modem.

NON-NUCLEAR GAUGES
FACTS’ solutions use non-nuclear gauges, eliminating safety and regulatory issues. These gauges provide direct measurement of the gum wall. Compared to nuclear gauges, measurements are done in a fraction of the time.

We use nuclear gauges when appropriate and necessary, frequently in plastics industries.
FACTS CALENDERING SYSTEMS SOLUTIONS

**ON-CAL 3**
**On Calender Precision Thickness Gauge**
- Measures gum wall thickness on the calender
- Fast due to very short transport delay and no scan delay
- Accurate and easy to maintain
- Inherently safe -- no nuclear source or radiation

**CALENDER GAUGE CONTROL SYSTEM**
- Fast, precise control of the individual gum walls
- Typically on spec in <1 calender roll revolution
- Statistically optimized target control
- Cross-axis control
- Roll bending (straightening)

**TOTAL LINE CONTROL SYSTEM**
- Control of the complete calender line
- Drive co-ordination
- Tension control
- Roll temperature control
- Line control from let-off thru windup
- Integrated with gauge control system

**INFORMATION SYSTEMS**
- Historical Data Collection & Analysis
- Bar Code Ticket Printer
- Roll Reports/Production Reports
- Material Tracking

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**Other Solutions**

**TIM 3001**
- Concurrent automated data capture
- Selective SQC/SPC & process analysis
- Color trend plotting of historical data
- Real time display of key statistical quality parameters

**CORD PLACEMENT VISION SYSTEM**
- Continuous measurement and monitoring of cord count, cord spacing, crossed, paired or missing cords
- Measures the ENTIRE web width multiple times per second
- Optional post calender marking system of defect location

**WIRE BALANCE GAUGE**
- Scanning precision measurement of wire placement within assembled calendared wire fabric
- Non-contact, non-nuclear

**BUBBLE PIERCER**
- Low profile
- Fits in tightest z-configuration
- Compatible with **FACTS** On-Cal 3 gauges
- Minimal gum distortion
- Traversing castering knife is speed synchronized with calender speed

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**Additional Features**

- Real Time Trend Plotting
- Product recipe system
- Security code system
- Cascade/strategy loop control (configurable)
- PID loop control (configurable)
- Master/slave speed control (configurable)
- Failed/broken thermocouple detection
- Alarm/new alarm function
- Math function calculations
- Transaction & Alarm logging (with optional 3001 Host)
- Boolean logic functions for complex process logic operations
- Digital speed control loops for all speed loops

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**Other Hardware Options**

- Actuator upgrades/replacements
- Width Measurement
- Pre and/or Post calender web profile scanner(s)
**WHY FACTS?**

**24/7 Support**

**FACTS** is there to help you day or night

Someone is always available to answer your questions

Engineers are process and equipment knowledgeable

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**Experience**

Over 20 years in the industry

Product, process & industry expertise

We are your automation partner

There is no substitute for experience

Our experience is hardcoded in every system

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**Tailored Systems**

Configuration of a tried & true software platform

Completely engineered solution

Configured for your specific line

Full documentation

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**FACTS, Inc.**

MEASURE . CONTROL . INFORM

**FACTS, Inc.**

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Over the past 20 years, **FACTS** has provided over 800 systems to the elastomer and polymer industries, all of which are fully supported today.