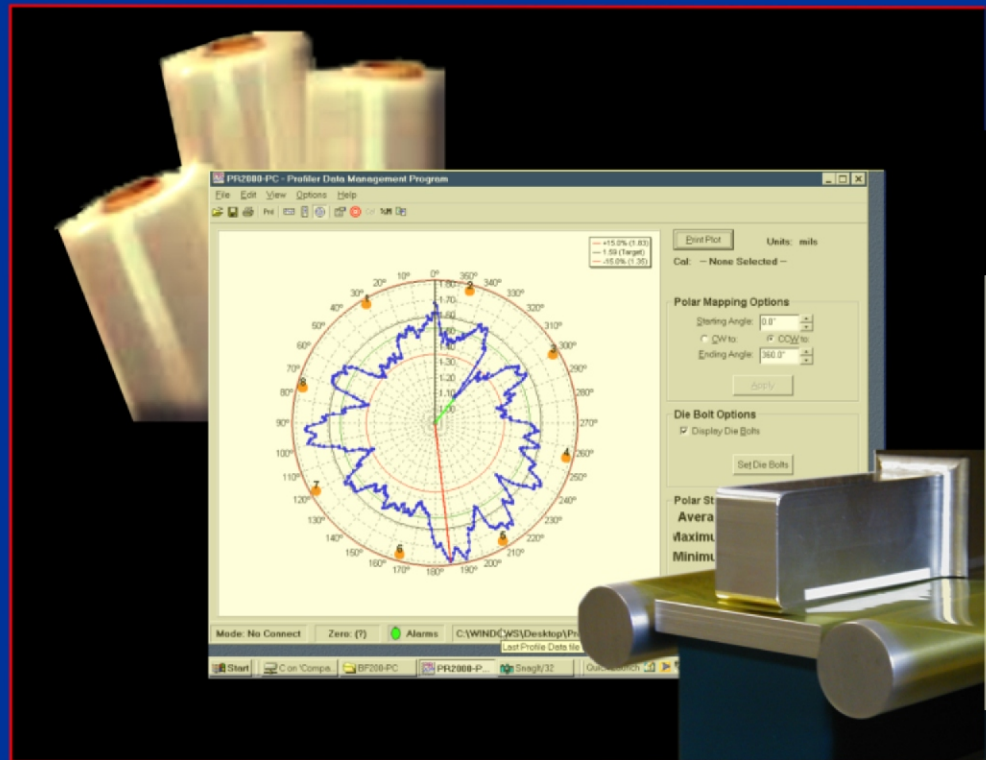


OFF LINE THICKNESS

Precision Profiler™

Fast, Accurate & Easy to Use



SolveTech

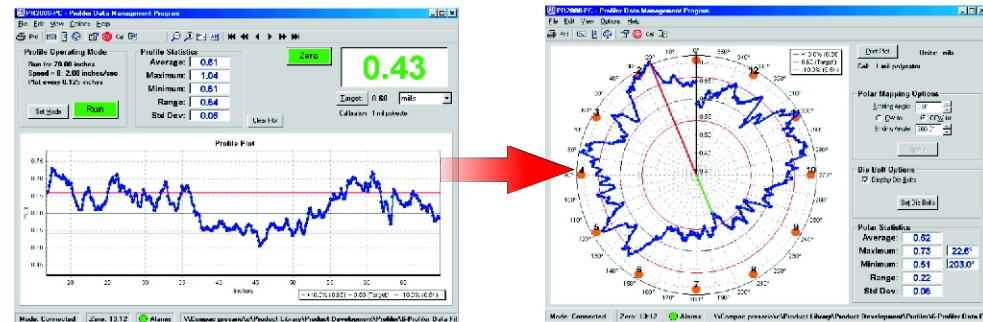


Special Blown Film Features

The *Precision Profiler™* has many special features designed to help Blown Film Manufacturers improve their measurement capabilities. Superior performance, easy to use software, and a reliable design make this the number one choice in Profilers for many companies.

Advances in stability, along with a robust design, allow you to use the *Precision Profiler™* in the Production Area and the QC lab.

GRAPHS & STATS TELL YOUR GAUGE STORY



Once the profile thickness is run, a click of the mouse transforms your graph to a Polar Plot. Simple controls allow you to set angles and superimpose die bolts.

Performance & Reliability

EnviroShield™ Head

Measurement Head is fully shielded against any influence from surrounding objects.

Temperature and Humidity Compensation gives measurement superior measurement performance.

One Inch Thick!

The faceplate of the *Precision Profiler™* is constructed from 1" Thick Aluminum. That provides a robust platform that helps deliver performance over time.

Motors and Bearings

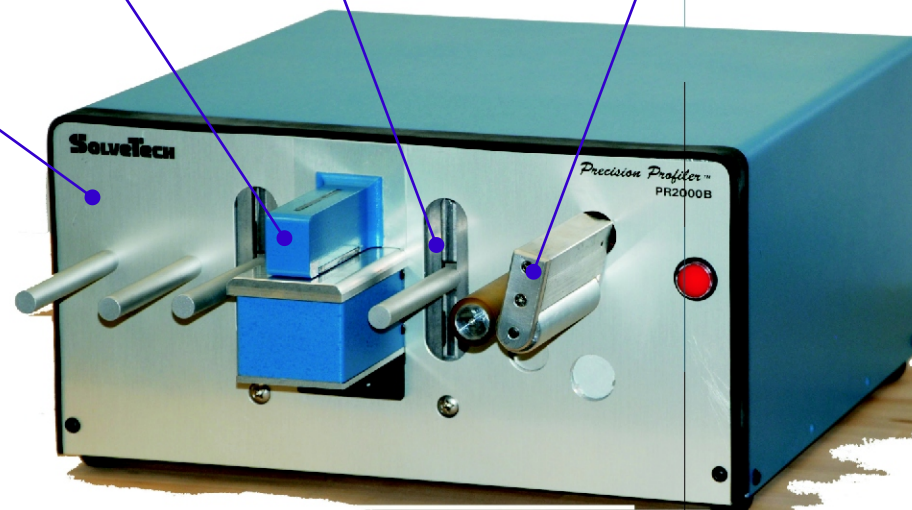
Oversized motors and quality bearings are incorporated throughout.

Adjustable Guides

Guides can be raised or lowered to control film tension through the Head. Angle can be adjusted to ensure proper steering of film.

No-Slip Nip

Programmable Nip Position is another SolveTech exclusive. Position shown gives a good wrap angle to reduce any slippage as film is transported.



Superior Performance You Can Count On

Gauge R & R

Part of the goal of the *Precision Profiler*™ is to be the world leader in Gauge R&R. Our proprietary Measurement Head design yields repeatable results like never before, with greater independence on individual operator technique.

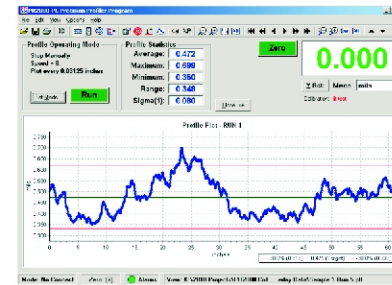
The Overlay

The *Precision Profiler*™ has a built in Overlay Feature that quickly shows repeatability. It is also very helpful when it comes establishing good operating technique and during operator training.

The graphs to the right tell the PR2000 story. Two back to back runs on 0.5 mil HDPE are shown at the top. Using the Overlay Feature, the superposition of the two runs shows virtually identical results.

Thickness Data 0.5 Mil HDPE

Run 1



Run 2



Overlay of Run 1 and Run 2



Confidence in Your Results

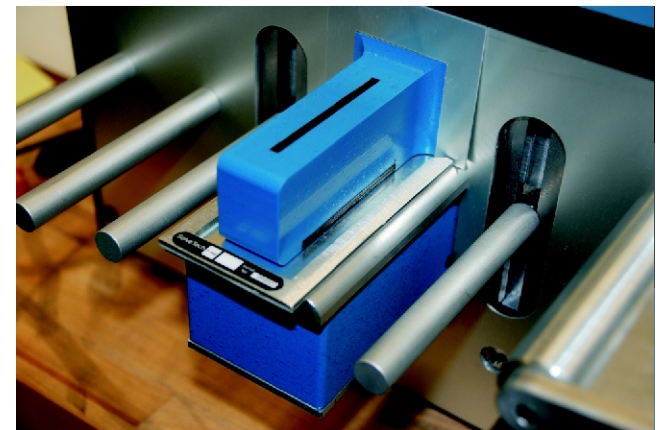
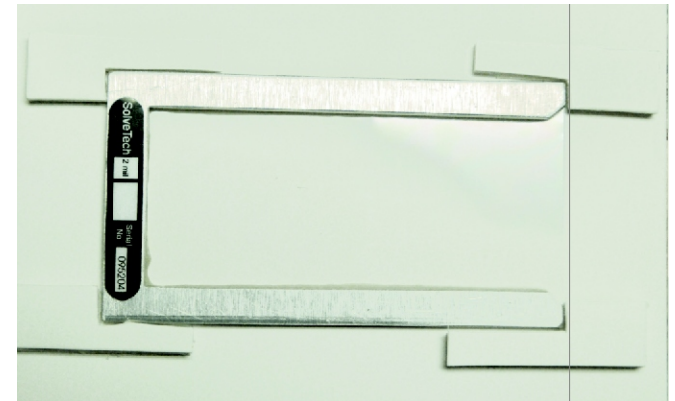
Tracking Performance

Film Reference Frames

SolveTech provides film reference frames to allow for simple and quick verification of the instrument integrity.

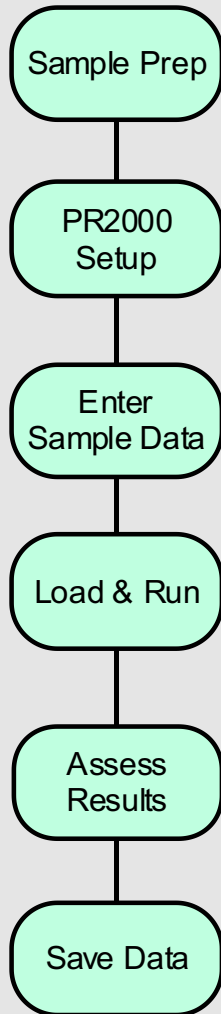
Initially, the film thickness data is entered into the calibration table, along with the serial number of the frame. To track instrument performance, you can return to the table entry, insert the sample and confirm that the reading has remained stable.

A sample reference frame is shown to the right, along with a picture of the frame when inserted into the Measurement Head.



It's All About Data Integrity

Basic Operating Procedure



Your Operator Needs Simplicity

Film Sample is cut to width with a template.
Recommended width is 3.4 inches.

The PR2000 fully supports operating templates for Software Settings. This allows you to create approved setups for your operator that are just a click away.

Enter Order Number, Extruder Number, or whatever makes sense for your organization. The programable field names allow you to use the same terminology that operators are accustomed to.

Sample is threaded into machine. Typically the instrument is run at a speed of 2 inches per second. This means that on a 60 inch long film sample the unit collects, plots and does stats on what would amount to 2400 micrometer readings.

Clear Cut Graphics and Statistics allow the operator to easily see results. If you like, a report can be printed to go with the

After running the sample, the Operator is prompted to save data. The Autofile Naming and Storage feature is important in ensuring the data is saved properly and in a prescribed fashion.

File Access and Data Transfers

Providing easy access to your data is an important part of the *Precision Profiler*™ design philosophy.

For starters, SolveTech promotes data access by allowing you to install the *Precision Profiler*™ software on any computer. The program has the ability to open, review, edit and transfer data into other Windows Applications.

In addition, there is an option to automatically store data files in generic form so that the data can be manipulated and analyzed per your requirements and as you see fit. (see below)

Ways to transfer information include:

EXCEL EXPORT

At the click of a mouse, the *Precision Profiler*™ PR2000-PC software will open Excel and create a spreadsheet with the complete data set, including the Sample ID Header.

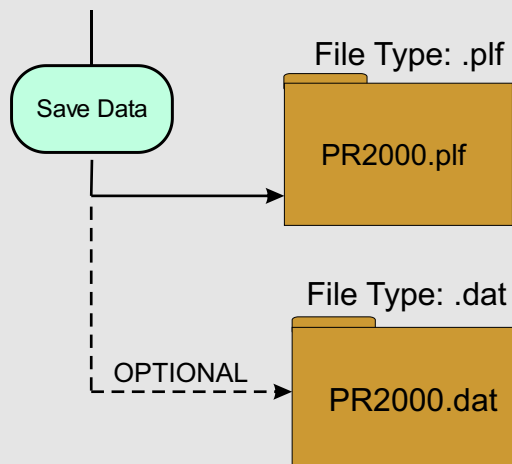
CUT & PASTE into other APPLICATIONS

Cut and Paste:

Graphs

Stats

Complete Data Set



Unlimited Data Access for Everyone

Your purchase of the *Precision Profiler*™ System entitles you to load the PR2000-PC Software on any computer. Data Files that have been generated can be opened, viewed, exported and printed in reports.

Generic File Format for Automated Transfers

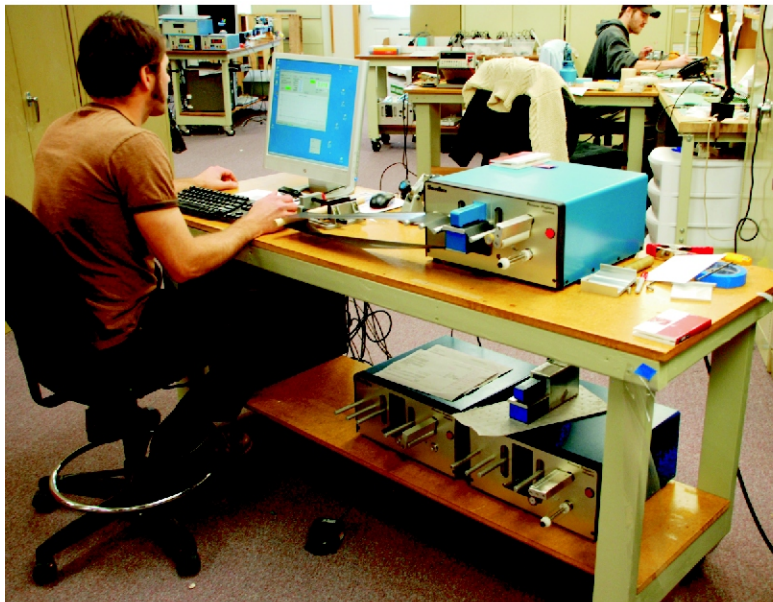
As an option, you can have the operator automatically save a CSV file to a specified location. This is useful for companies that want to automate data analysis or integrate the Profiler data into their corporate data base.

Service and Support

Initial Installation

In most instances, SolveTech provides on site installation and training support for the *Precision Profiler™*. After gaining an understanding of your objectives, we will train your key people on how to best operate the instrument and take full advantage of the features to help optimize your procedures.

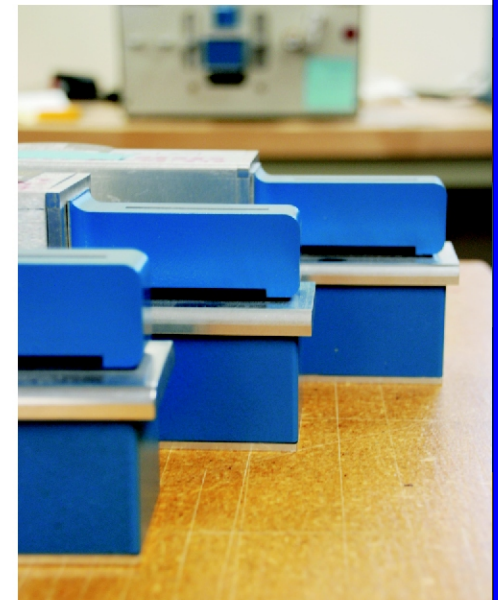
Follow-up support is readily available. With our 30 Years of experience in capacitive measurements, we can help with your most demanding application questions.



Repairs and Maintenance

There are no periodic maintenance requirements for the *Precision Profiler™*.

SolveTech maintains a full complement of parts, ready to service your *Precision Profiler™*, should the need arise. We know that most of our customers run 24/7 operations. We typically can provide 24 hour service on most repairs.



SYSTEM INFORMATION / SPECIFICATIONS

The *Precision Profiler*TM Model PR2000B utilizes SolveTech's non-contact, high precision, high accuracy gauging technology.

Sample Size/Type

Film sample strips approximately 3.4" wide x up to hundreds of inches long. The technology is compatible with all known blown film formulations. Samples can range in thickness from 0.2 mil to 35 mil. The capacitive based technology is *not* intended for use with conductive materials.

Computer Requirements

Software requires standard PC (not included) running a Windows® operating system with the following specifications:

500MB RAM minimum

Serial Data Port

Color Printer (optional)

System Software

Easy-to-use program. Uses standard concepts associated with windows-based programs.

Spatial Resolution

Resolution of the graph can be set between 1/8" and 1" in 1/8" increments. Footprint is 1/8" x 2.25"

Start/Stop Strip Motion

Start is initiated by a foot switch, striking a "F2" on the keyboard click of the mouse. Stop can be manual or automatic. Auto-Stop is based on a user entered distance, or tape markers. The speed at which the material moves through the profiler is selectable: 1, 2, or 3 inches per second.

Calibration

There is a special calibration file for creating and using calibration recipes. System incorporates SolveTech's simple, two-point calibration technique, which is linear with respect to a given material composition. Special %Plus mode automatically normalizes data and requires no calibration.

SYSTEM INFORMATION / SPECIFICATIONS (CONTINUED)

File Naming and Storage

Auto file names are generated based on the concatenation of user field data. Files are stored in a user specified location.

File Formats

Standard Data that are native to the Profiler Software have a .plf extension.

Optional CSV files can be simultaneously be name and stored.

Graphing

Scaling: Both fixed and auto scaling. Full set of navigation tools for viewing and editing data.

Statistics

Stats include: Mean, Minimum, Maximum, Range and Standard Deviation . Stats are clearly displayed on all screens and any reports.

Graphing (other)

Graph shows sample ID (as entered by user), target, scale (range and values), and date/time of collection.

Graph Data - Deletions & Exclusions

The user can, under cursor control, trim ends and eliminate regions of the graph from the statistics. Selected regions(s) can be clearly seen on the graph. Faulty regions can be excluded from the statistics

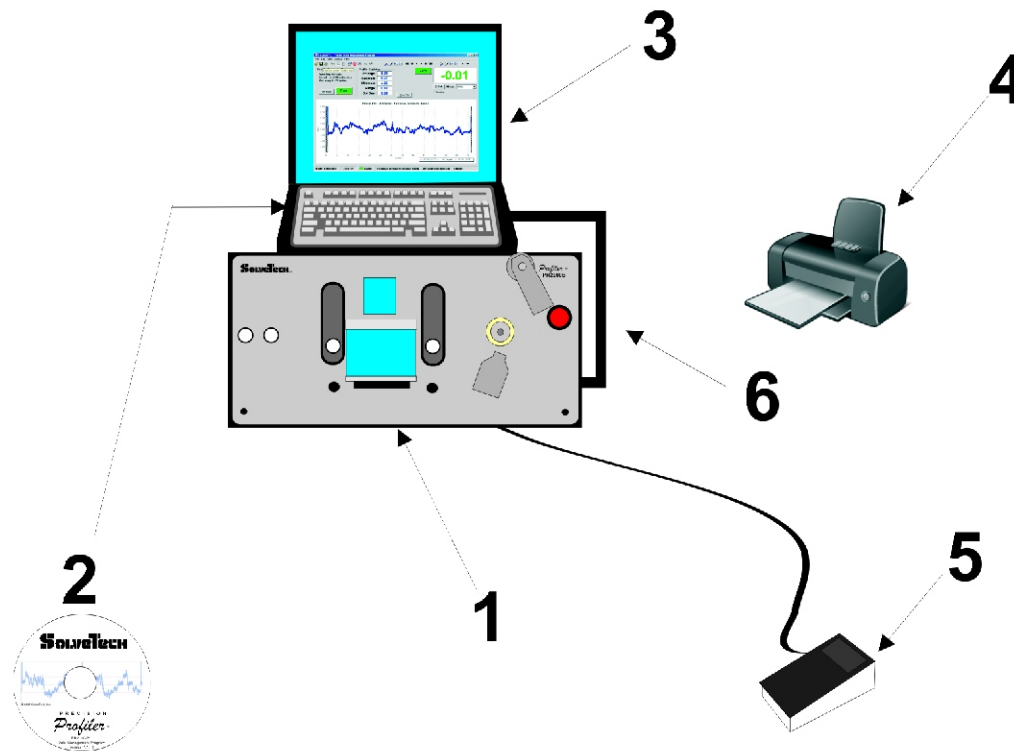
Graphing - Polar Plot Option for Blown Film

The user can choose to view the data either in polar or cartesian mode. In polar mode, the user can choose to map the data into a partial (less than 360 degrees) region by entering the appropriate variables. Die bolt patterns may be displayed.

Archives

The program allows archived files to be opened and viewed. Files can be used as templates for Software Settings.

System Overview



1. Precision Profiler™
2. PR2000B-PC Software
3. User Computer (not included)
4. Color Printer (not included)
5. Foot switch
6. Serial Cable (25 to 9)