Financial benefits

Improved light weighting capabilities
The Process Pilot® system makes it possible to take light weighting to the limit without sacrificing bottle performance.

Reduced scrap and rework
The Process Pilot® system is proactive – problems are identified and addressed before bottle quality is affected.

More productive use of labor
Less labor is required to operate the blowmolding equipment.

Improved quality and increased pack rate
Monitoring every bottle for quality and proactively managing the blowmolder facilitates maximum pack rate.

Rapid payback
Customers report that system payback is achieved in less than one year as a result of material light weighting, labor savings and improved pack rate.

Blowmolder compatibility
The Process Pilot® system is compatible with all major brands of rotary blowmolders. Whether your operation uses one particular brand or a combination, you can now standardize on one style of automated blowmolder control system for all of your blowmolders.

What our customers have to say

“Process Pilot®... has shown to be able to properly drive the blower as nobody could humanly do... process optimization is much more timely and accurate as a result of Agr’s Process Pilot® managing the process.”

(Nestle)

“Adjusting thickness for both a light weight bottle design and usability was the most important factor and the Agr Pilot Profiler™ system with Process Pilot® closed-loop blowmolder control provided a means to manage thickness to the levels required and control the blowmolder to maintain them on a continuous basis.”

(Suntory)

“Since installation, held product due to material distribution and nonconformance has been reduced to zero with Process Pilot®... in the six months before Process Pilot® was installed, held ware due to material distribution nonconformance was over ½ million bottles.”

(Graham Packaging)
Process Pilot® automated blowmolder control

A SIMPLE CONCEPT
Monitor bottle material distribution on every bottle... proactively adjust the blowmolder to maintain optimal distribution

The Process Pilot® system manages the blowmolder based on bottle quality and proper material distribution. Simply said, the Process Pilot® system monitors distribution data measured on all bottles as they exit the mold. When changes occur that affect material distribution, the Process Pilot® system automatically makes the correct blowmolder adjustments to maintain proper distribution.

“Process Pilot® is superior to any operator in this plant... its ability to perform multiple parameter adjustments in real-time is beyond the ability of even our best operator.”

Process Pilot® Total Blowmolder Management

The Agr Process Pilot® family of products offers a total process and quality control program for PET containers. This powerful combination of thickness distribution management, random defect detection and automated blowmolder control provides an unmatched set of tools that can significantly improve operational efficiencies on a 24/7 basis, while improving product quality and increasing profitability.

Process Pilot® – 3 Critical Components

Material Distribution Management
Pilot Profiler™ in-the-blowmolder material distribution management system offers a comprehensive method for managing material distribution and blowmolder performance while providing the critical feedback for closed-loop blowmolder operation. This system compensates for bottle variations in preform moisture content and similar variables that cause blowmolder production problems.

Defect Detection
Pilot Vision™ expands blowmolder process and quality management capabilities by incorporating vision-based preform and bottle inspection for random defects.

Automated Blowmolder Control
Process Pilot® automated blowmolder control system, utilizing material distribution feedback provided by the Pilot Profiler™ system, interacts with the blowmolder controls, adjusting key parameters to proactively manage the blowmolder.

...one total solution!

Precise material distribution measurement... the basis for automated blowmolder control that really works

The Process Pilot® system utilizes Agr’s patented Pilot Profiler™ measurement system for monitoring thickness over the entire sidewall of every bottle. Even the smallest changes in material distribution can be identified with precision, from source to destination. This type of comprehensive feedback makes it possible for the Process Pilot® system to control the process to a level of precision unmatched by any other methods.

Defect detection... when and where it is needed

The Pilot Vision™ system provides that extra level of security that may be necessary to deal with non-distribution related, random occurring defects such as those associated with the increased use of PCR content. The Pilot Vision™ system offers a means to inspect preforms as well as the finished bottle for all common defects.

No need for section weight measurement

Easy to operate, just like cruise control

The Process Pilot® system can standardize your operation

The Process Pilot® system provides standardization to your process, eliminating variations imposed by different operators from shift to shift. With the Process Pilot® system, jobs can be standardized across all shifts. Every job is run the same way, improving production efficiency and product consistency.

The Process Pilot® system manages common processing issues more effectively

- Preform variability
- Startup transients
- Environmental changes
- Operator experience
- Material variations

Friendly to our environment
With constant monitoring of distribution and proactive blowmolder adjustment as well as the addition of Pilot Vision™, resin-related issues, such as contaminents due to increased use of PCR and recycled materials, are managed routinely with high confidence.

Automated blowmolder control... means consistent bottle quality and performance 24/7

The Process Pilot® system manages the process based on material distribution measured on every bottle, regardless of changes in ambient temperature, differences in preform moisture content and similar variables that cause blowmolder production problems. This system compensates for bottle variations across the process, allowing the blowmolder to produce high-quality containers with minimal operator intervention.
Process Pilot® Total Blowmolder Management

Process Pilot® automated blowmolder control

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Plant manager-major bottle converter

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Process Pilot® can reduce material and environmental process variability

Variations in the process due to material, environmental, equipment and other factors are managed automatically by the Process Pilot® system.

Unlike an operator, the Process Pilot® system can make minute adjustments to multiple blowmolder parameters simultaneously.

Precise material distribution measurement . . .

the basis for automated blowmolder control that really works

The Process Pilot® system utilizes Agr's patented PilotProfiler™ measurement system for monitoring thickness over the entire sidewall of every bottle. Even the smallest changes in material distribution can be identified with precision, from source to destination. This type of comprehensive feedback makes it possible for the Process Pilot® system to control the process to a level of precision unmatched by any other methods.

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Material Distribution

Control

Automated Blowmolder

Defect Detection

Material Distribution

Controller

Process Pilot® Control Software

Ozone
Prevent
Pressure
Preform Vision
Monitoring

Material Distribution

Controller

Defect Detection

Material Distribution

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Material Distribution Management

Pilot Profiler™ in the blowmolder material distribution management system offers a comprehensive method for managing material distribution and blowmolder performance while providing the critical feedback for closed-loop blowmolder operation.

Defect Detection

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The Process Pilot® system manages the blowmolder based on bottle quality and proper material distribution. Simply said, the Process Pilot® system monitors distribution data measured on all bottles as they exit the mold. When changes occur that affect material distribution, the Process Pilot® system automatically makes the correct blowmolder adjustments to maintain proper distribution.

“The Process Pilot® system can standardize your operation . . .

Process Pilot® automated blowmolder control

A SIMPLE CONCEPT

Monitor bottle material distribution on every bottle . . . proactively adjust the blowmolder to maintain optimal distribution

No need for section weight measurement

Easy to operate, just like cruise control

The Process Pilot® system manages common processing issues more effectively

- Preform variability
- Startup transients
- Environmental changes
- Operator experience
- Material variations

Friendly to our environment

With constant monitoring of distribution and proactive blowmolder adjustment as well as the addition of Pilot Vision™, resin-related issues, such as contaminents due to increased use of PCR and recycled materials, are managed routinely with high confidence.

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Process Pilot®

Process Pilot® can reduce material and environmental process variability

Variations in the process due to material and environmental, equipment and other factors are managed and recovered by the Process Pilot® system. Unlike an operator, the Process Pilot® system can make multiple adjustments to multiple blowmolder parameters simultaneously.

Automated blowmolder control . . . means consistent bottle quality and performance 24/7

The Process Pilot® system manages the process based on material distribution measured on every bottle, regardless of changes in ambient temperature, differences in preform moisture content and similar variables that cause blowmolder production problems. This system compensates for bottle variations and automatically adjusts the equipment and automated blowmolder to produce high-quality containers with minimal operator intervention.

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One style control . . .
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What our customers have to say
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"Adjusting thickness for both a light weight bottle design and usability was the most important factor and the Agr Pilot Profiler™ system with Process Pilot® closed-loop blowmolder control provided a means to manage thickness to the levels required and control the blowmolder to maintain them on a continuous basis..." (Suntory)

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AUTOMATED BLOWMOLDER CONTROL
featuring Process Pilot®
The world’s first, cross-platform closed-loop control system with integrated vision.

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Process Pilot – get the best value from your blowmolding operation

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