

FocalPoint™

MONTROSE
TECHNOLOGIES INC.

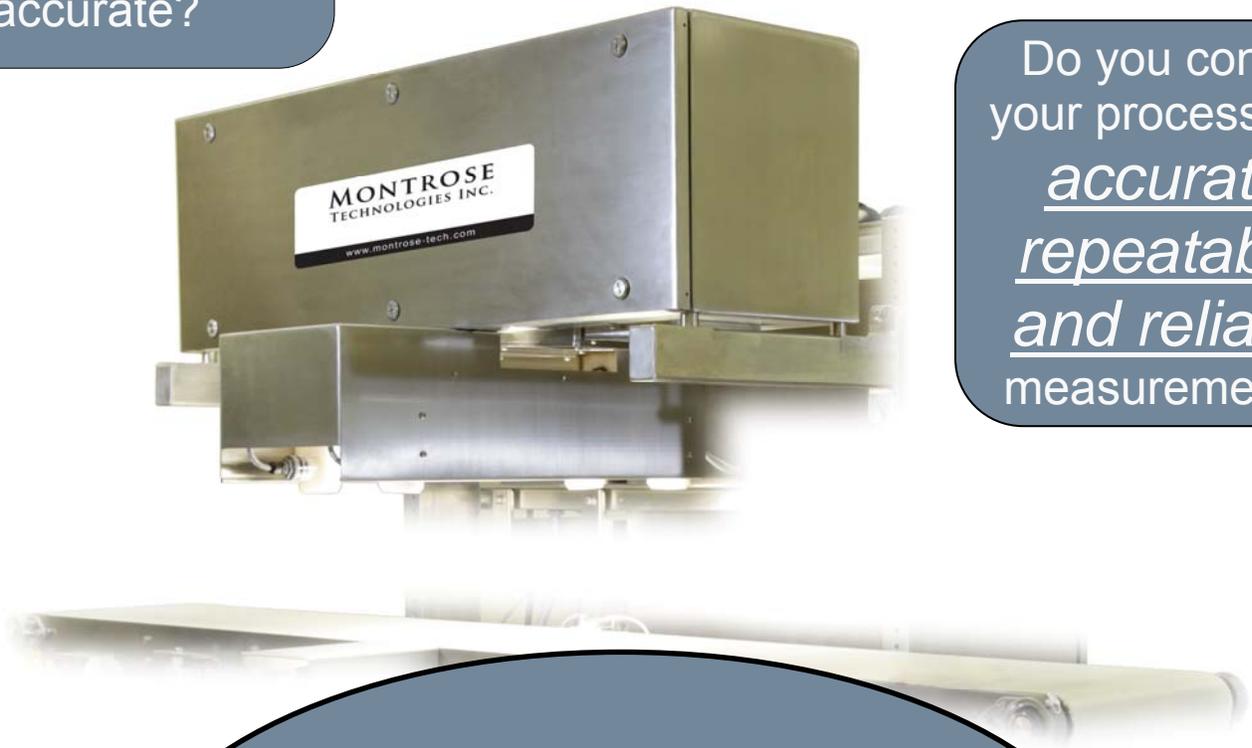
Vision in baking since 1998.

Are you looking for a way to improve and track product quality?

Are you sure that the measurements you currently make on your products are accurate?

Are you looking for a way to save money on production and labor costs?

Do you control your process with accurate, repeatable, and reliable measurements?



Do you wish you could keep track of process information for everything you make or will ever make, and with the click of a few buttons review it any time of the day or night?

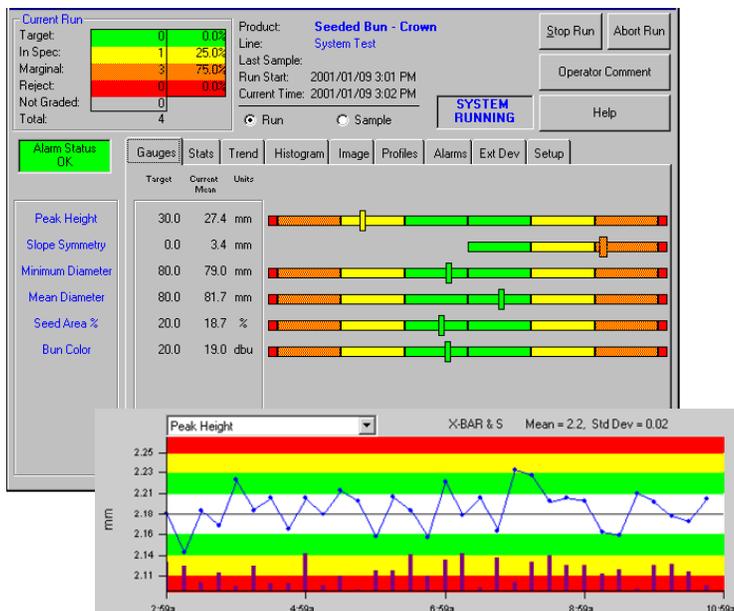


The FocalPoint™ Inspection System

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The FocalPoint™ system uses a high-speed, non-contact imaging method to continuously monitor a wide range of object information such as color, topping coverage, height, diameter, slope, symmetry, length and surface texture. Data is stored in a relational database for historic reporting and trending to help with managing critical plant processes and to maintain optimum quality levels.

Results may be displayed in real-time on an attached monitor or Ethernet connected PC. Operators can view individual results in numerical format, as a trend graph or as a histogram. Statistical results such as standard deviations and Cpk's are also displayed. Data is automatically archived to a database for further analysis and report generation.



System options include external horn/beacon alarms, additional sensor heads and display screens, analog output signals (to control ovens), and integration with 3rd party devices such as moisture meters, scales, and data management packages such as SAP.

The FocalPoint™ System can be installed directly over existing conveyors or can be supplied with a conveyor as an independent 'AtLine' unit. Every system is completely customizable providing you the flexibility to choose the type of measurements and options that suit your environment. Configurations include:

- 3D sensor head with laser profiling
- 2D sensor head with color imaging
- Touchscreen, PC monitor, remote connection
- Overline mounting frame
- Camera field of view – 4" to 48" wide

Key Benefits:

- Physical measurement of every product in 2D, 3D, and color
- Bolt in place, plug it in, ready to use
- Pre-configured measurement setup for the products you make
- Inspection Software, including SPC module, with charting (histogram, linear, scatter, etc.)
- Full data storage and historical reporting
- Easy to calibrate and operate
- Supports external devices such as weigh scales and moisture sensors
- Easily expanded/upgraded to full in-line with rejection and advanced material handling capability
- Performs over 100 complex analysis measurements including:
 - Diameters (min, max, mean)
 - Height (max, mean)
 - Slopes (mean, end-to-end, evenness)
 - Bake Color (Average w/o topping, edge, Center)
 - Topping (Color, Coverage)
 - Length/width
 - Surface area and Volume
 - Blob analysis (height and color)
 - Ability to measure up to 25 objects per second (that's 1500 per minute or 7500 dozen per hour)

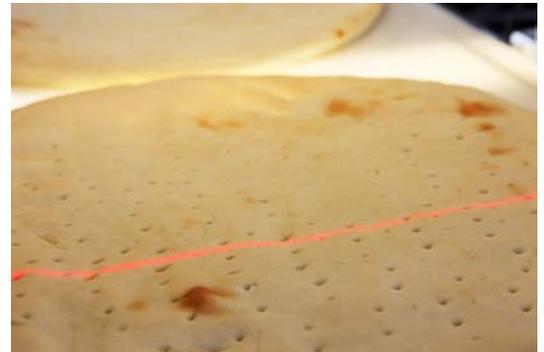


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Why should you consider the FocalPoint™?

- System price as low as \$35K
- Flexible and competitive purchase, rental and leasing options
- Easy to install and operate
- Rapid payback through:
 - Lower or eliminated labor costs
 - Reduced waste
 - Maximized yield
 - Improved quality
- Increased plant safety at inspection points
- Increased hygiene as no human contact is required
- Complete monitoring and reporting on every product you make
- Inspection at multiple locations: pre/post-proofer, raw dough, pre/post-oven, pre/post-enrobing, pre/post-packaging
- Versatile measurement capability:
 - Baked goods:
 - bread, buns, pizza, cookies, bagels, English muffins, raw dough, tortillas and flatbreads, cakes and donuts, sub buns and hoagies
 - Chocolate, snack and enrobed bars
 - Snack foods
 - Frozen foods such as waffles, toaster pastries, breakfast foods and savory baked items
 - Meat and Poultry
- Products of ANY size and shape can be measured
- Easily keeps detailed records of everything you make
 - Over 100 different measurement types
 - Detailed description of defects
 - Logging of production activity by the minute
 - Detailed production reporting in real time and historically
 - User defined reporting options by the minute, hour, shift, day, week, month, or year
- Easily upgradeable.
- Backed by a full system warranty
- Dedicated in-house and field support staff
- Full inventory of spares available via overnight shipment to just about anywhere in the world



Advanced Vision Forms the Clearest Picture

HOW YOUR ORGANIZATION BENEFITS

No more manual measurements or data entry for the QA Technician.

Continuous measurement data available to Line Staff and Production Managers.

FocalPoint[™]

Simplified method for the QA Manager to produce data reports, in a variety of formats.

Plant Managers receive consistent and continuous data to enhance productivity.

The FocalPoint[™] increases efficiency, improves product quality, and saves you money!

System Specifications

Measurement Accuracies:

Height: $\geq \pm 0.5\text{mm}$
Length/Width/Diameter: $\geq \pm 1\text{mm}$
Overall Bake Color: $\geq \pm 1\text{dbu}$

Product Characteristics:

Max Throughput: up to 25 objects/sec
Max. Length: up to 1524mm (60")
Max. Width: up to 750mm (30")

Physical (sensor head):

Largest Dimension: 1060mm (42")

Environmental:

Ambient Max. Temp.: 50°C (122°F)
Ambient Min. Temp.: 2°C (36°F)
Humidity: 5% to 95%
(Non-condensing)
Power: 120-240VAC
50/60Hz, 1PH

Contact Information

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The FocalPoint[™]
Over-line system for continuous
monitoring and alarm generation.