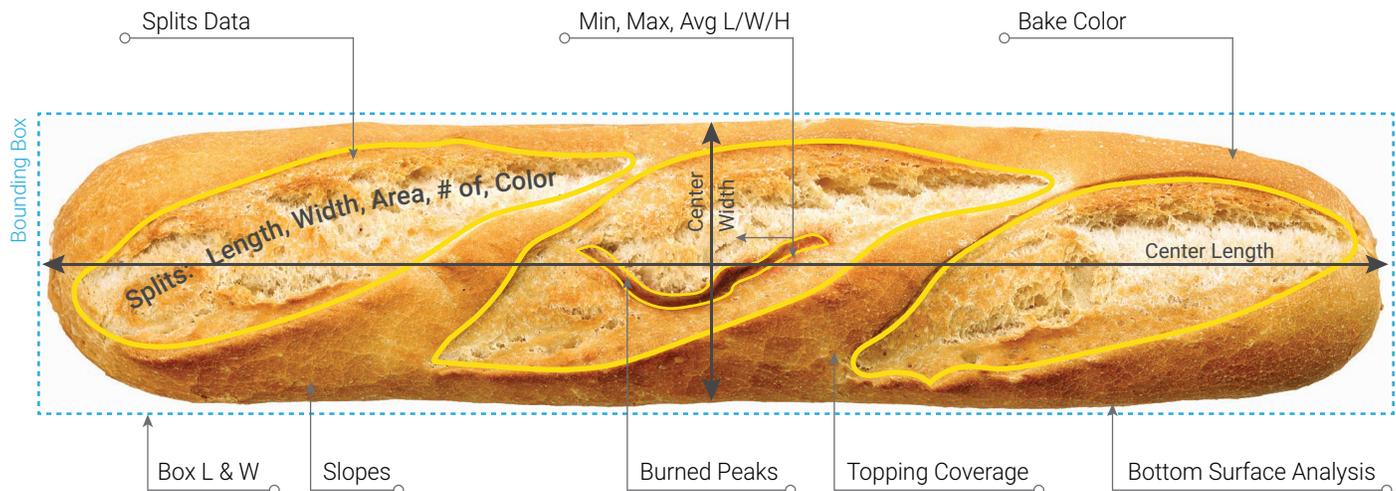




APPLICATION BRIEF

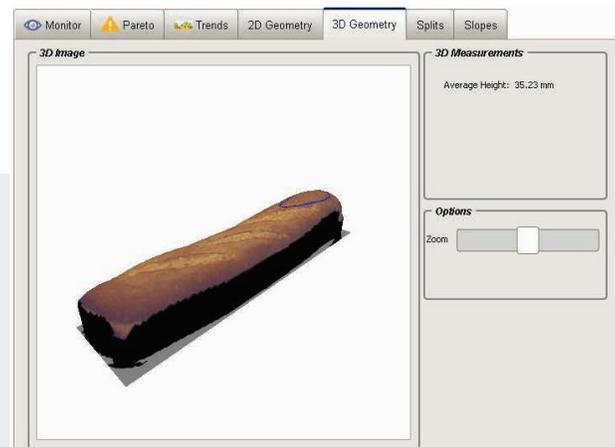
BAGUETTES

The manufacture of baked goods provides many challenges since there are a multitude of input variables that can affect product quality. The ability to continuously monitor key product attributes using Sightline's *measura*® real-time inspection software (e.g. bake color, peak height, slopes, blister area, etc.) in a quantifiable way, provides the opportunity to meet product specifications and respond to changes faster and more effectively.



Additional Defects Detected

- Blister Area
- Blotchiness
- Black Spots
- Roughness
- Foreign Objects



HEIGHT 3D ANALYSIS

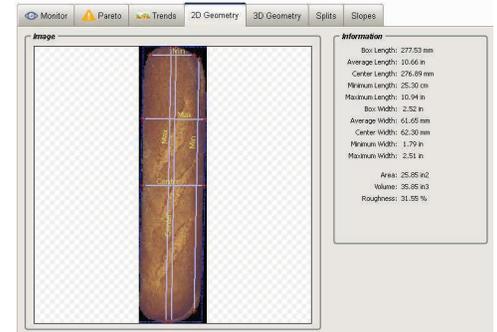
Peak Height	The highest point on the object when resting on a flat surface; calculated by taking the average of the 'N' highest height points measured on the top surface (N is user-configurable).
Volume	Calculated based on 2D area data and 3D height information. Can be used with density to calculate predicted weight.
Slopes	The curvature of the top surface on the product; measured by calculating the vertical change between the center and a user-defined ring near the edge of the product.

Virtually any food product can be measured using Sightline’s imaging technology, either directly during the production process (Over-Line/In-Line) or using a Benchtop Inspection System (Off-Line/At-Line).

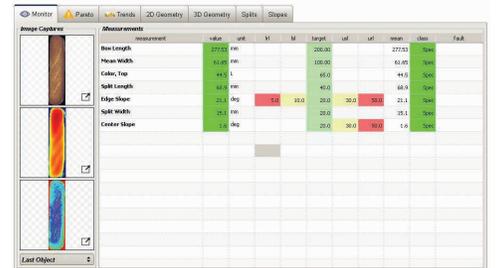
Below are some of the measurements available, particularly related to baguettes and other long buns.

OVERHEAD 2D ANALYSIS	
Surface Area	The overall area of the object. Used to find doubles and small products.
Blister Area	The area of any dark spots (i.e. blisters) on the top surface.
Botchy Area	The area of any white/blotchy regions (i.e. blotchiness) on the top surface.
Product Color	The average color of the product with all topping (if applicable) ignored for the calculation.
Min/Max/Avg Length	The minimum, maximum, and average length of the object as measured at several points across the long axis of the object.
Center Length	The length of the object as measured down the center of the long axis.
Min/Max/Avg Width	The minimum, maximum, and average width of the object as measured at several points across the short axis of the object.
Center Width	The width of the object as measured down the center of the short axis, perpendicular to the length measurement.
Topping Coverage Percentage	For topped product, the percentage of the top surface covered by topping (light, dark, or both).
Splits Data	The minimum and maximum length and width of the split. The % of the surface area of the product covered by the split.

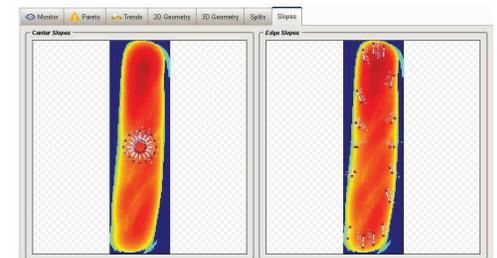
BOTTOM SURFACE ANALYSIS	
Bottom Color	The average color of the bottom of the product with all gas pockets ignored for the calculation.
Black Spots	The surface area of the dark/black regions on the bottom of the product.
White Edges	The surface area of the under-baked edges on the outer ring of the bottom of the product.



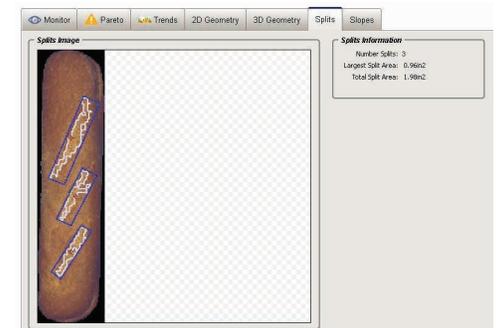
2D Measurements



Summary Data



Slopes Measurements



Splits Analysis