Bead Profile Analyzer

BPA-3000 Semi-Automatic Bead Profile Analysis for 3-Piece Food Cans

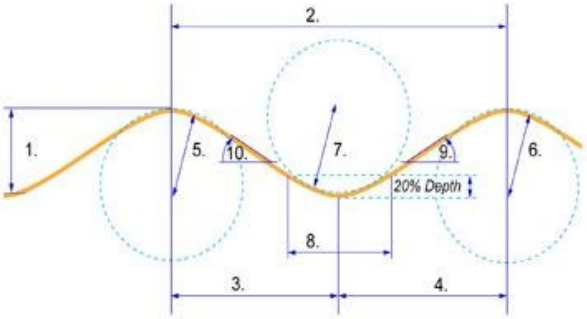
Go beyond simple Bead Depth Measurement!

Bead measurements are made quickly and accurately on any beaded can with the Bead Profile Analyzer. The BPA-3000 utilizes the functionality of the Bead Depth Gauge and adds a dynamic analysis software module to create a complete Bead Profile.

The Bead Profile Analyzer automatically determines the number of beads, and ignores minor dents or imperfections. Each Bead Depth reading is then calculated automatically.

In addition to Bead Depth (1), the BPA may measure other important parameters of the bead profile, such as Bead Length (2), Top Length (3), Bottom Length (4), Upper Radius 1 (5), Upper Radius 2 (6), Lower Radius (7), 20% Width (8), Up Angle (9), Down Angle (10), Symmetry and Symmetry %. With this, canmakers are able to measure their beads properly and maximize the performance of the cans in terms of axial load and paneling strength.

Canmakers are able to measure their beads properly and control the performance of the cans in terms of axial load and panelling strength.
Visionary QCTM Software provides a uniform environment with which to record and analyze complex measurement data within your quality operations. When the Bead Profile Analyzer is used in conjunction with Visionary QCTM, it scans the can in X and Y direction and sends the complete profile to an external computer. All readings are automatically transferred to a computer database - saving time, eliminating data entry errors, and providing a permanent record for future reference.



Features

- Easily Adjusts to Different Can Sizes
- Automatic Measurement on up to 50 beads in high resolution
- Hundreds of readings per second
- Robust and compact design

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- Customizable analysis and review of test data
- Mechanical and automatic scanning eliminates operator error, improving accuracy

Technical Details

Max. Number of Beads:	50
Max. Can Height:	11.8in (300mm)
Characteristics Measured:	Bead Depth, Symmetry, Width in 20% from bottom, Up Angle, Down Angle*
Bead Depth Range:	0-0.098in (0-2.5mm)
Electrical Power Required:	100-240VAC 50-60Hz
Output Interface:	RS232
Languages:	English, German
Dimensions:	528mm x 455mm x 644mm
Resolution:	Bead Depth: 0.00004 in (0.001mm), Can Height: 0.0004 in (0.01mm)
Repeatability:	±0.0004 in (±0.01 mm)
Accuracy:	±0.00004 in (±0.001 mm)

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