

# Bead-to-Bead Profile Measurement System

The **Bytewise Bead-to-Bead** profile measurement system provides instantaneous non-contact data acquisition for tire profiles from one bead, across the sidewall, tread, and opposing sidewall, to the opposite side bead.

B2B has applications in verifying inflated tire size and profile shape to the design specification, analyzing competitors' tires, and measuring tire growth.



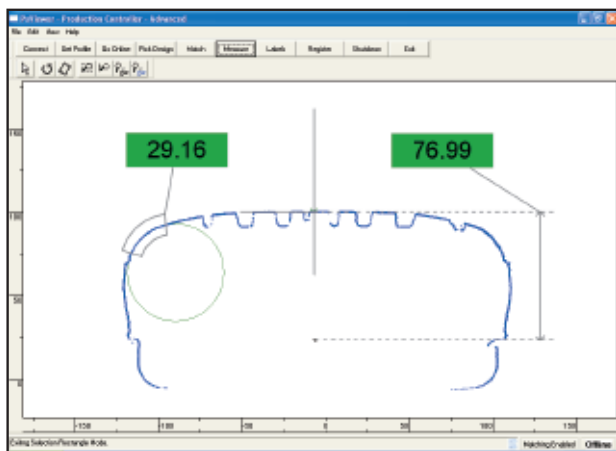
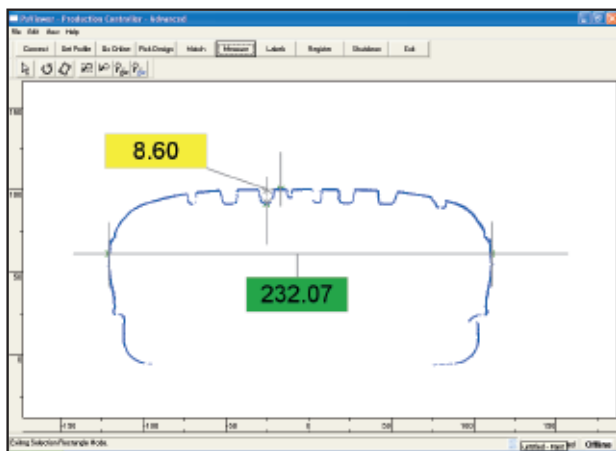
## Key Benefits

- Acquires 4,000 or more data points per profile for a high data density
- Acquires complete profile in less than one second
- Renders the profile in a visual display
- Provides easy-to-use tools for measuring section width, crown radius, and other parameters
- Outputs data points in several formats, including DXF and TXT

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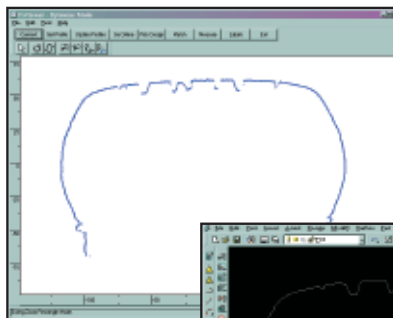
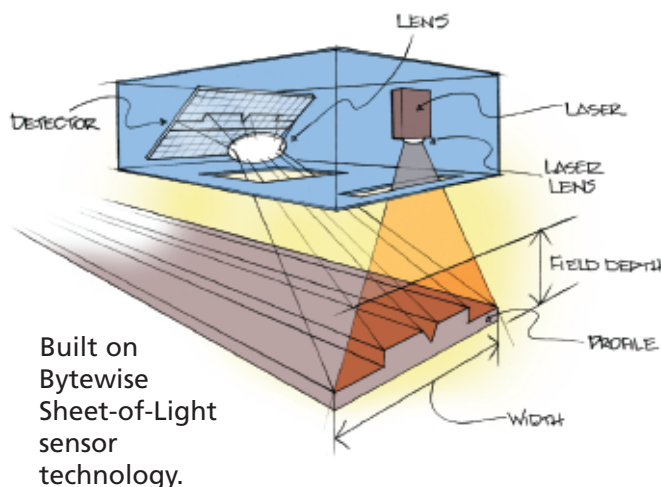
## Operational Overview

### Display Software

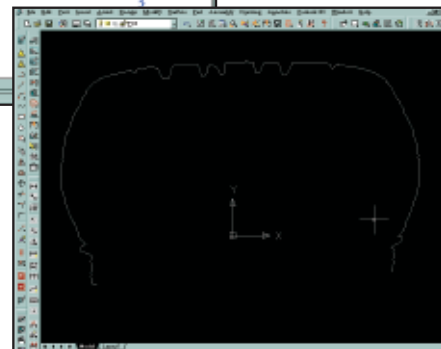


Use calipers to measure profile features such as Section Width, Tread Depth, Shoulder Radius and Crown Height.

### Measurement Principle



A profile may be exported from the Bead-to-Bead software to a CAD program



## Specifications

|                             |   |
|-----------------------------|---|
| Tire Size Capability        | Various configurations to accommodate tires sizes ranging from passenger to truck and bus |
| Sensor Accuracy             | 0.15mm (based on standard sensors)  |
| Measurement Accuracy        | 0.15mm or 0.3mm (*)   |
| Triggering                  | Keyboard  |
| Point Data Output Formats   | DXF, TXT  |
| Communication Interface     | Digital and Analog I/O, Ethernet (Modbus TCP)   |
| Laser Safety Classification | IIIa  |

\*Measurement accuracy will depend on whether the data required to complete the desired measurement comes from one or two sensors.