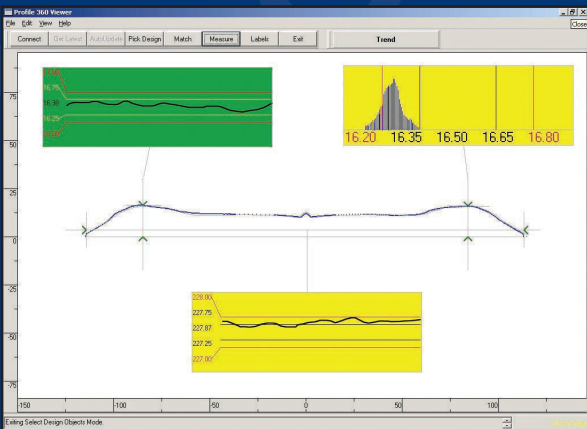
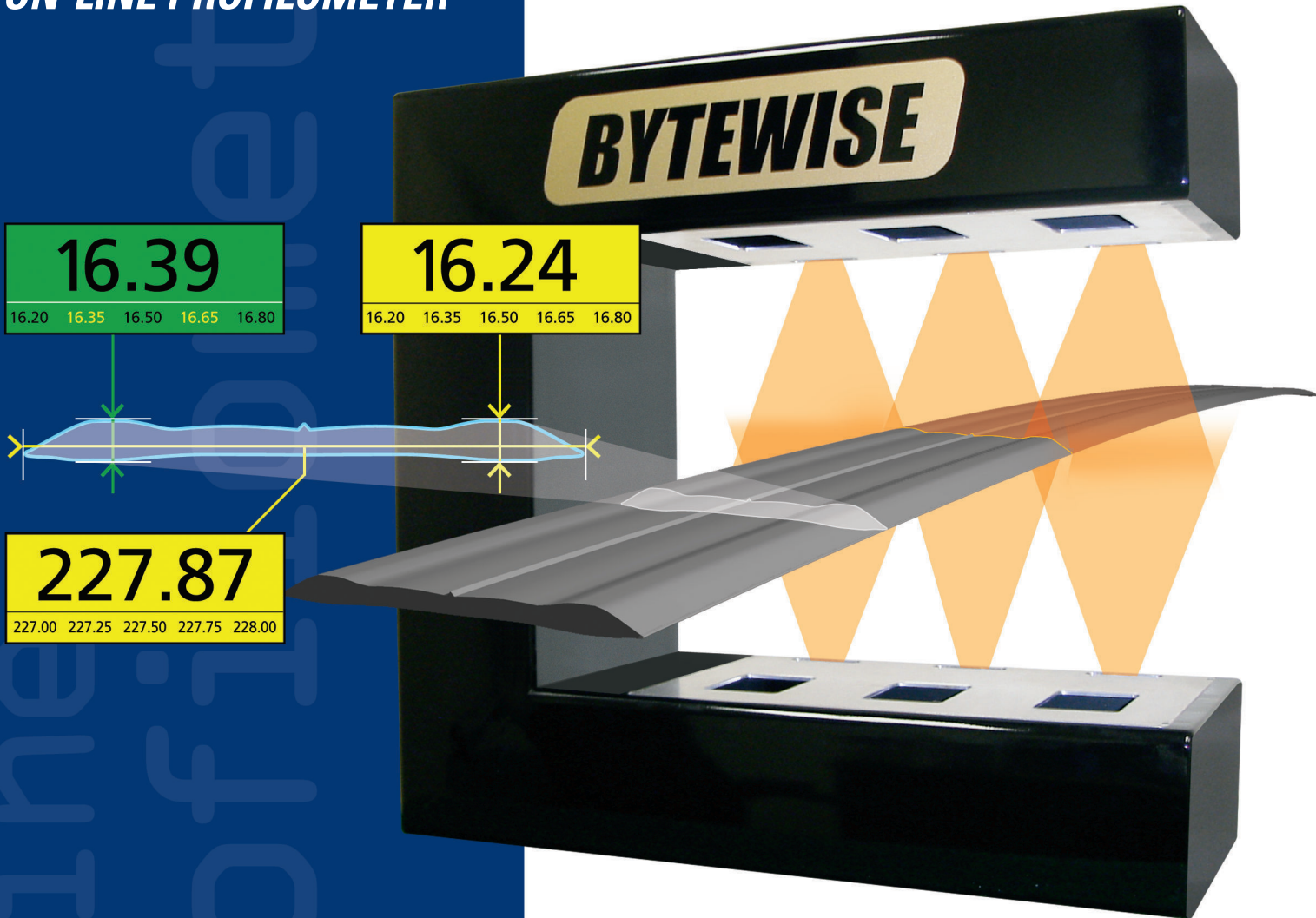


# BYTEWISE OLP

ON-LINE PROFILOMETER

The Bytewise On-Line Profilometer (OLP) provides automatic, high speed, non-contact measurement of extrusions. OLP outperforms scanning systems by collecting instantaneous cross-section profiles rather than measuring in a zigzag pattern.

On-line measurement enables immediate response to process variation caused by materials, equipment and die problems. OLP can reduce startup, run-time and assembly scrap and, ultimately, customer returns.

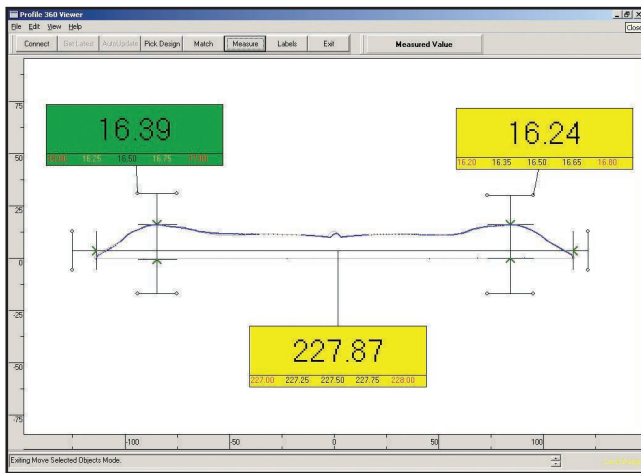


## Key Benefits

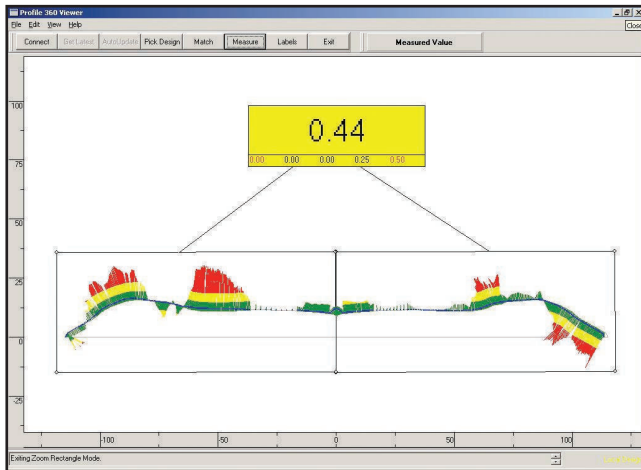
- Ensure your process remains in control across the multiple dimensions of width, thickness, density/porosity, and distribution for greater uniformity and product quality
- Provide material saving benefits by running your product to the minimum acceptable tolerance
- Provide for greater throughput and less rework by empowering your operator to respond to problems immediately
- Control your process more tightly and improve Cpk
- Install quickly at any line location for 100% quality verification
- Integrate the PC-based system seamlessly with your existing Windows-based network and data warehouse
- Produce reports for production, quality and customer requirements

# Bytewise On-line Profilometer (OLP)

## Display Software

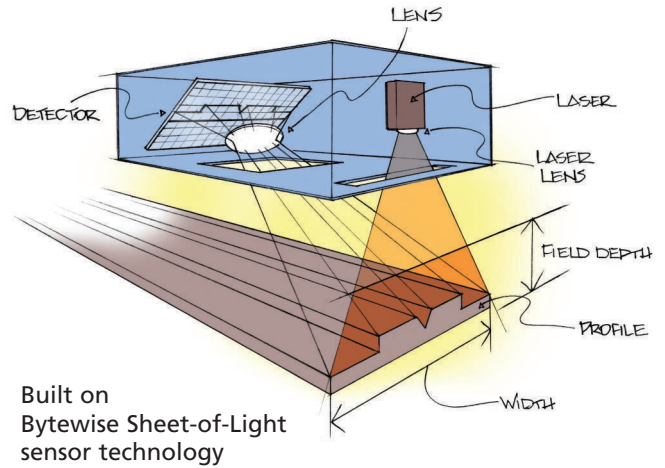


Assess tread width and true thickness parameters

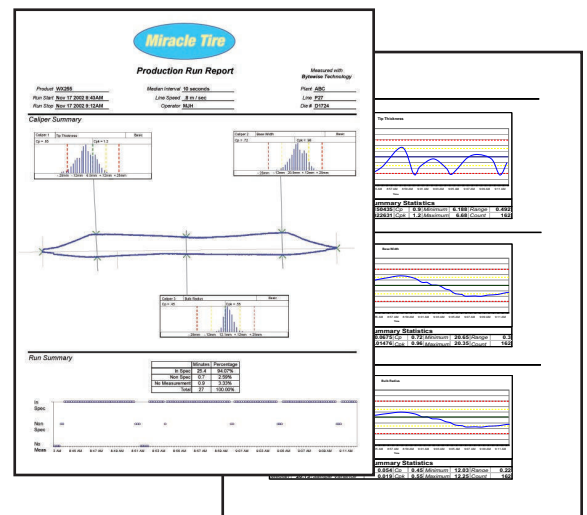


Assess error in tread profile shape and conicity

## Measurement Principle



## Reporting Software



## Specifications<sup>4</sup>

For detailed specifications please see <http://www.bytwisec.com/MarketingDownloads/OLPDetailedSpecs.pdf>

	Measurement Range (mm)				Measurement Range (inches)			
	Thickness	Width			Thickness	Width		
	60	300	450	600	2.36	11.81	17.72	23.62
Absolute Accuracy <sup>1</sup>	0.15	← 0.30 →			0.006	← 0.012 →		
Relative Accuracy <sup>2</sup>	0.0225	← 0.09 →			0.001	← 0.004 →		
Resolution <sup>3</sup>	0.001mm / 0.00004in							
Measurement Rate	Selectable up to 7.5 profiles/second							
Communication Interface	Analog & Digital I/O; RS232; Ethernet							
Laser Classification	IIIa CDRH							

- 1) Absolute Accuracy: The maximum amount of error present in any single measurement of a target located anywhere within the field of view.
- 2) Relative Accuracy: The maximum amount of error present when comparing successive measurements of a target with changing dimensions and located at a fixed position within the field of view. (This also can be considered as "accuracy in measuring product variation.")
- 3) Resolution: The smallest meaningful unit of measurement that is reported by the system.
- 4) For all specifications, measurement rate is assumed to be one update per second.