

## Wood Scan

### Executive Summary

Optimet's ConoProbe MK10 with a 75 mm focal lens was used in the application of wood scanning. The main industrial inspection application during the scanning is related to the samples' height, radius and angles. Height differences between two points or lines, corner radii and surface angle relative to base were calculated with high accuracy. All three samples were created from wood.

### 1. Optimet's Advantages over Other Technologies:

1. Unique collinear technology
2. Capability to measure sharp angles in minimum clearance
3. High lateral resolution
4. High sampling rate with no need for averaging

### 2. Application Description

Three kinds of wood samples scanned using Optimet's ConoScan 3000 with a 75 mm focal lens.

### 3. Results and Observations

#### First Sample

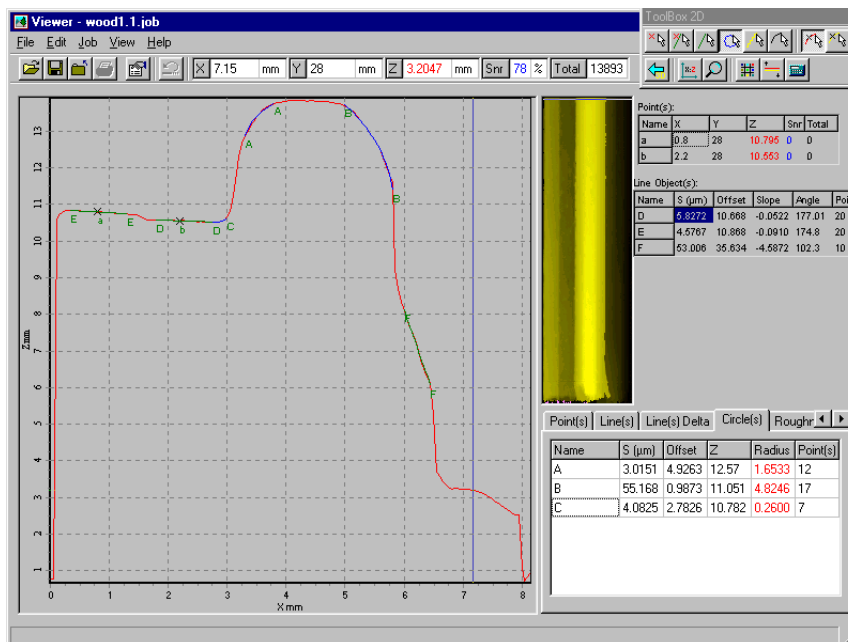


Figure 2 – 3D representation

Figure 1 – profile



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## OPHIR

A Newport Corporation Brand

### Second Sample

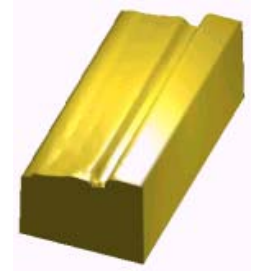
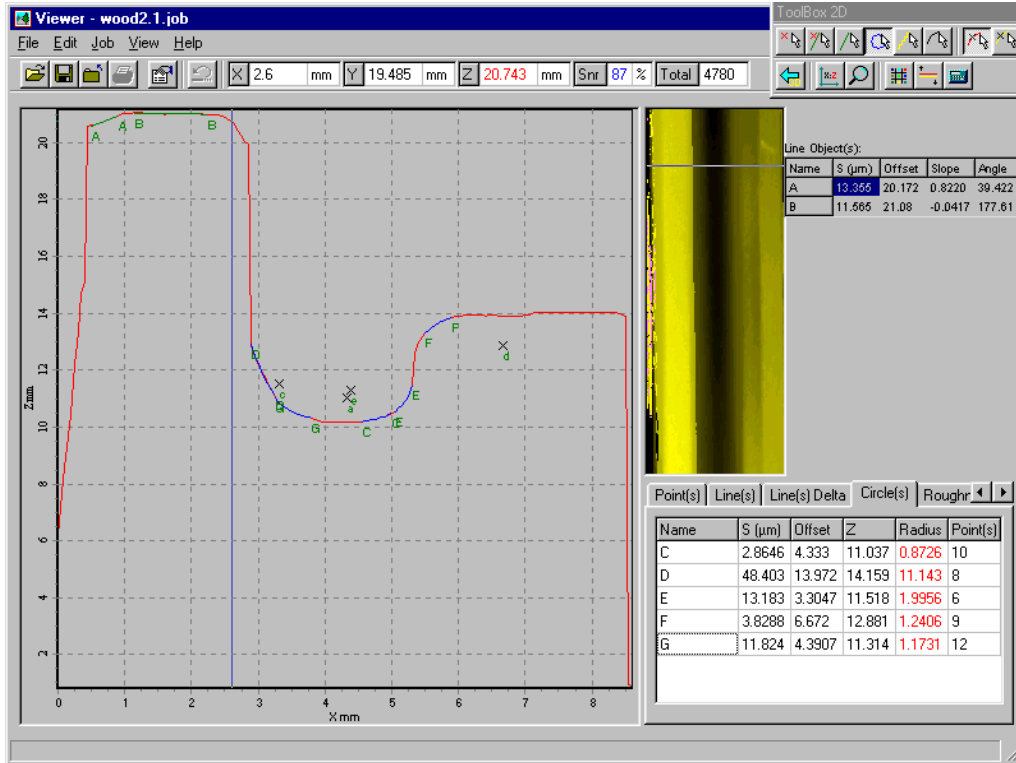


Figure 4 – 3D representation

Figure 3 – profile

### Third Sample

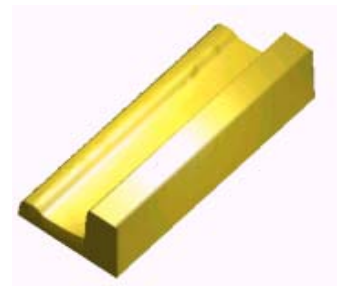
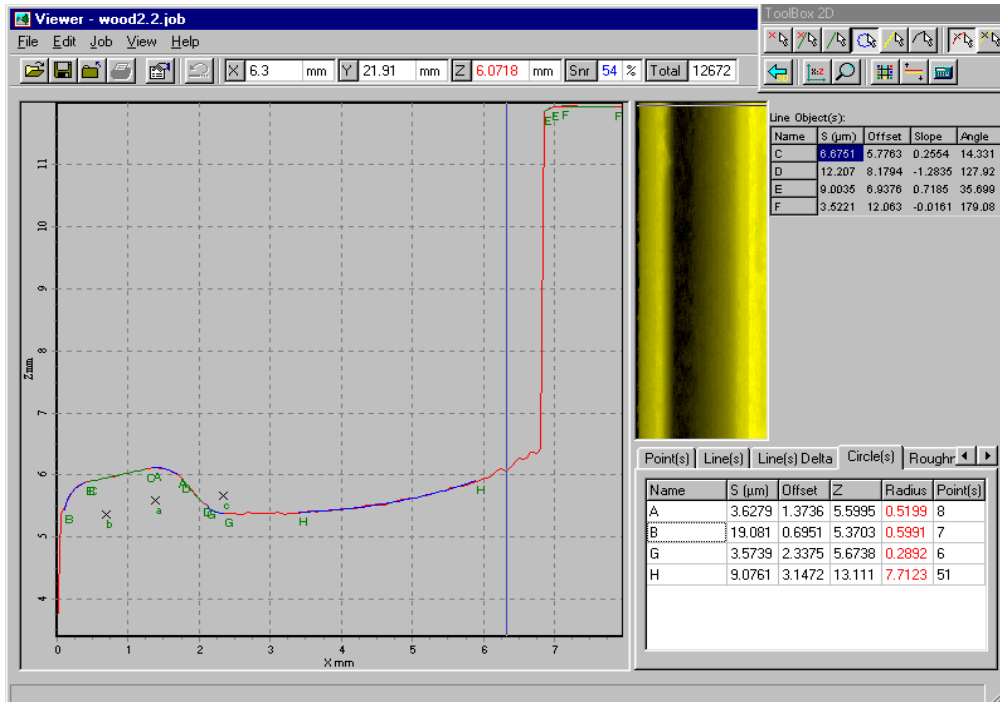


Figure 6 – 3D representation

Figure 5 – profile

#### 4. Data

<b>Parameter</b>	<b>Value</b>
Reflective/Diffusive/Transparent/Translucent	Diffusive
Working Range (mm)	18
Precision ( $\mu\text{m}$ )	8
Stand Off (mm)	70
Max. Data Rate	9KHz
Lateral Resolution( $\mu\text{m}$ )	25
Z Resolution	-
Application Category	-