

Three Samples Inspection

Executive Summary

Optimet's ConoProbe MK10 with a 25 mm focal lens was used in sample inspection. These tests were performed only to demonstrate measurement capability. This report contains analysis results from the following samples:

- ANB
- ANN
- F

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

Scanning of three samples using Optimet's ConoProbe MK10 with a 25 mm focal lens.

Test settings:

Sample	Scan Size (mm)	Measurement Rate (kHz)	X-Step (μm)	Y-Step (μm)	Laser Power
ANB	5 x 1	9	5	10	60
ANN	3 x 1	9	2	10	10
F	3 x 1	9	5	10	9



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3. Results and Observations

ANB

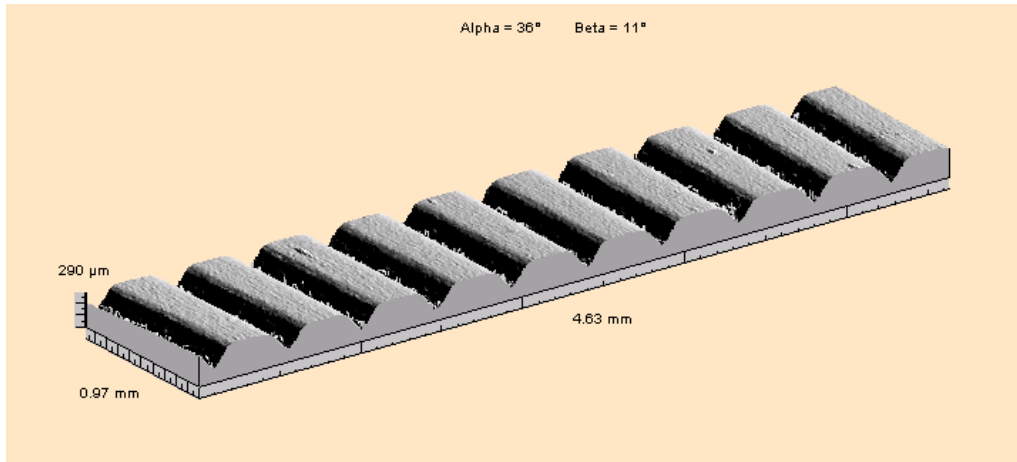


Figure 1 – 3D representation of scanned segment

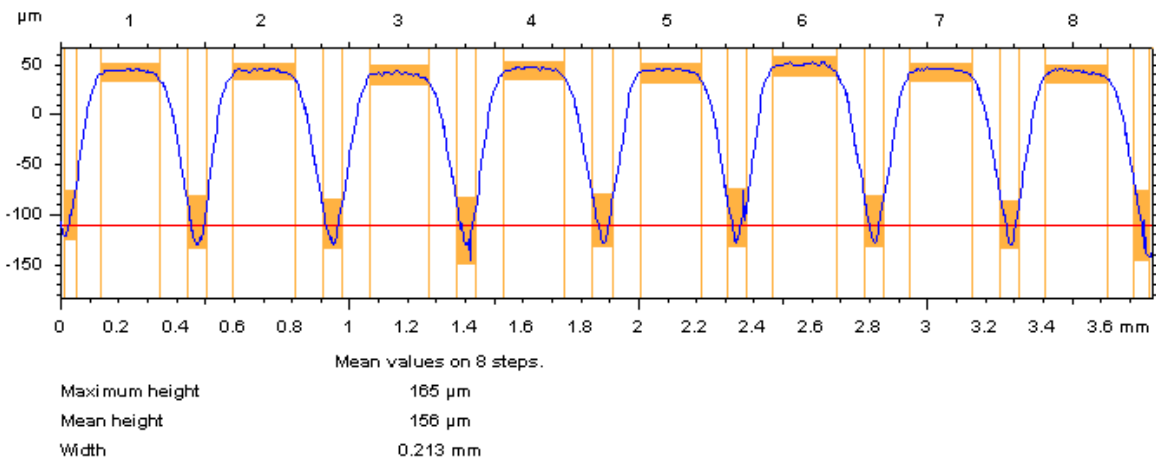


Figure 2 – Selected profile measurements

ANN

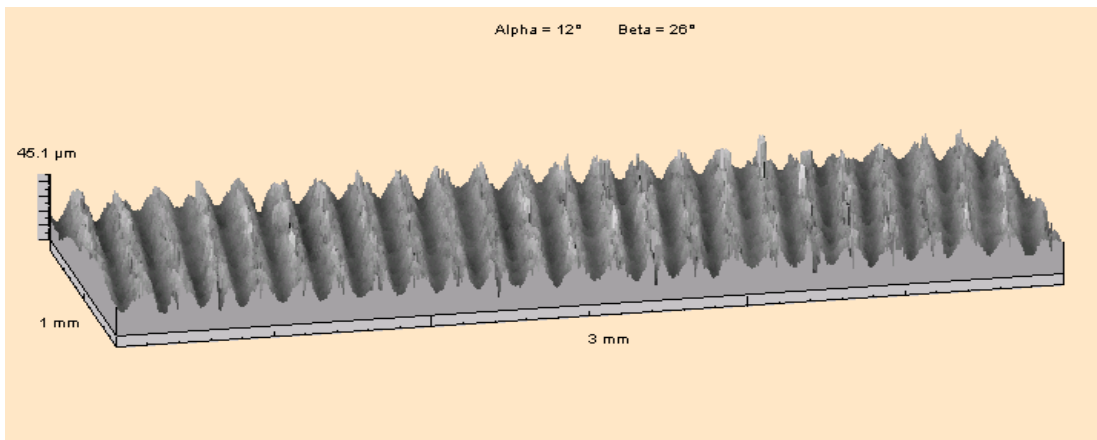


Figure 3 – 3D representation of scanned segment



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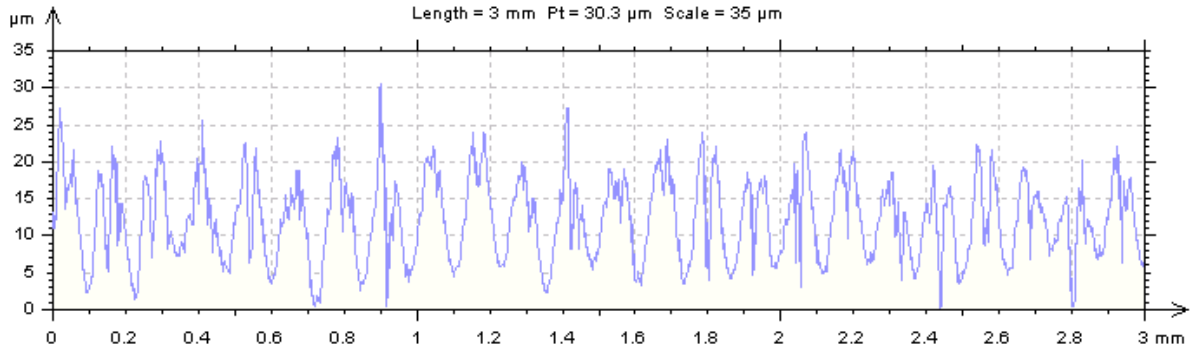


Figure 4 – Selected profile measurements

E

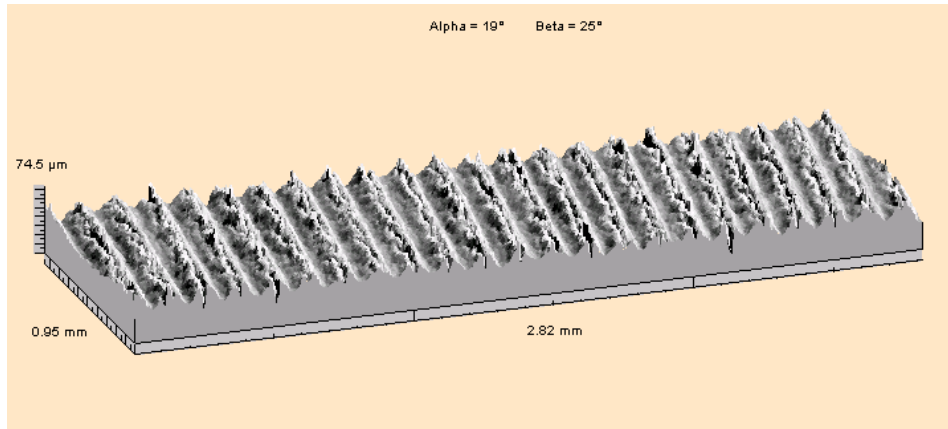


Figure 5 – 3D representation of scanned segment

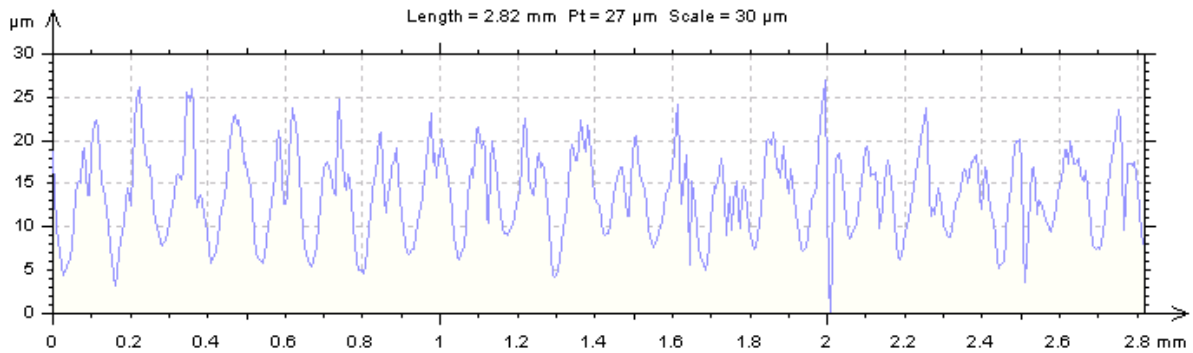


Figure 6 – Selected profile measurements

4. Data

Parameter	Value
Reflective/Diffusive/Transparent/Translucent	Diffusive
Working Range (mm)	0.7
Precision (μm)	1
Stand Off (mm)	14
Max. Data Rate (Hz)	9K
Lateral Resolution	-
Z Resolution	-
Application Category	-