

SCAN SUITE 8

SCAN CT - PROFILE AND 3D ANALYSIS SOFTWARE

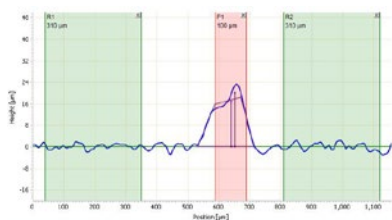
SCAN CT is a software package for measuring and analyzing 2D profiles and 3D raster maps.

It offers complete 2D and 3D surface measurement parameters as well as sophisticated filter and compensation methods.

All combined in an operator friendly user interface.

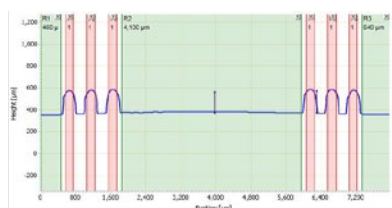
2D PROFILE MEASUREMENTS

- Step Height (avg., max. and min. height)
- Flatness and Warpage
- Width and Length
- Cross Section Area
- Angle, Radius, Contour Analysis



Height and Width Measurement of a solar cell finger

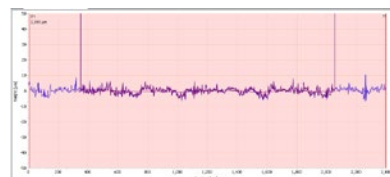
Define base line and measurement areas using reference and measurement cursors. Select analysis from dropdown menu.



Profile analysis on a metal precision part

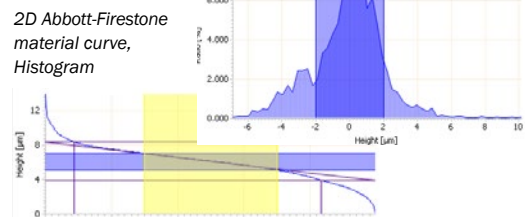
PROFILE ROUGHNESS MEASUREMENTS

- DIN EN ISO conform Roughness Parameters
- Shape Removal Algorithm
- Abbott-Firestone Material Curve
- Histogram
- Tip Simulation for Non-Contact Systems



Roughness Measurement on a metal surface

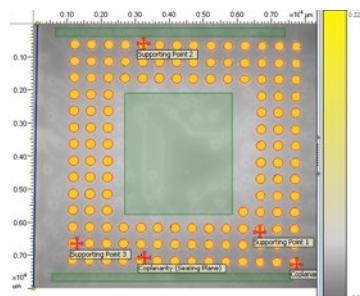
Advanced roughness analysis, even on round or angled surfaces using shape compensation. Display waviness and roughness profile.



2D Abbott-Firestone material curve, Histogram

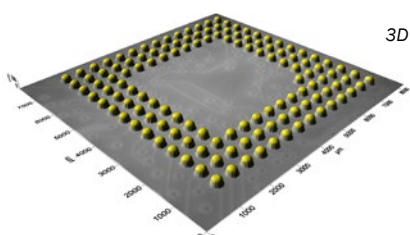
3D COPLANARITY MEASUREMENTS

- 3D Height (avg., max. and min. height)
- Flatness and Warpage
- Coplanarity



Coplanarity Measurement of a BGA Component

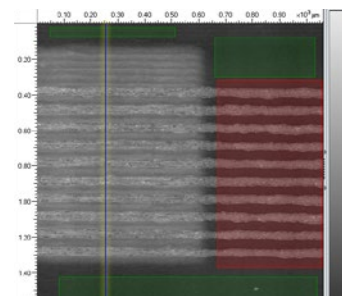
Draw rectangle, round or polygon cursors to define base plane and measurement areas.



3D Surface

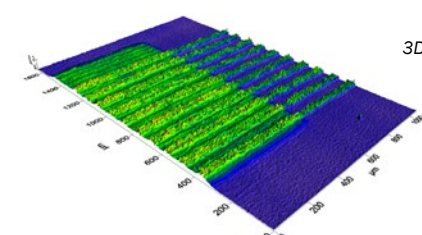
3D VOLUME MEASUREMENTS

- Volume (Cuts, Fills, Net Volume)
- Planar area
- Surface area



Volume calculation on a thin film print

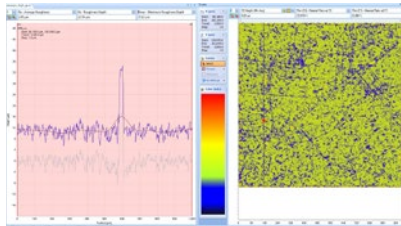
Measures cuts and fills and uses height threshold. Accurate areal and planar surface calculations



3D Surface

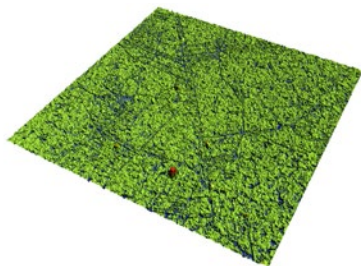
3D ROUGHNESS MEASUREMENTS

- New DIN EN ISO 25178 Parameters
- 3D Waviness Filters
- 3D Abbott-Firestone material curve, Histogram



Roughness Measurement on a solar wafer

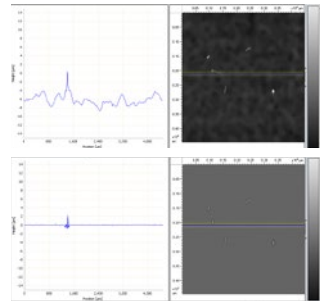
Use advanced DIN /TS 16610 Filters. 3D Roughness Analysis even on warped or uneven surfaces.



3D Surface

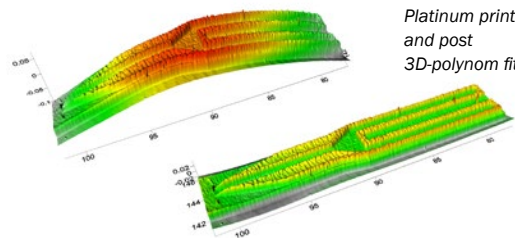
2D AND 3D SURFACE COMPENSATIONS

- 2D and 3D Polynom Fit
- Pre- and after measurements
- Areal Waviness Compensation



Copper surface defect with areal waviness filter

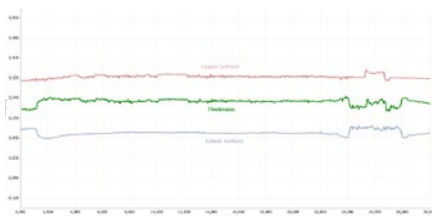
Surface compensation is only applied based on the data in the reference cursors.



Platinum print pre and post 3D-polynom fit

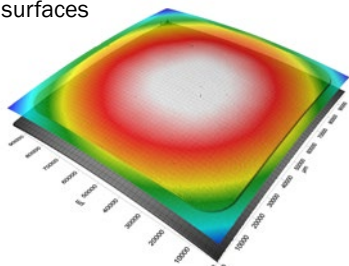
PARALLEL DATA COLLECTION

- Parallel scanning with up to 4 sensors
- Collect Top, Bottom and Thickness data
- Average Thickness, Bow and Curvature
- Total Thickness Variation
- Parallel Intensity Masking



Top, bottom and thickness profile of a solar wafer

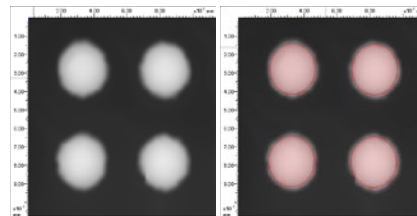
Graphical display of thickness maps and top/bottom surfaces



Top and bottom surface of a fuel cell component

MORE FEATURES AND HIGHLIGHTS

- x-, y-, z-data stitching capability
- 2D and 3D edge detection algorithm
- Windows 7 64 bit Version available
- Raster up to 200,000,000 data points
- Integrated user management



Automatic detection of BGA bumps

Compare geometry by overlaying profiles.



Profiles across a fuel cell component

SUMMARY

SCAN CT is a complete, unique and easy to use surface analysis software. It offers outstanding features and includes the following highlights:

- Complete 2D and 3D surface analysis
- Profile and 3D roughness measurements according to DIN ISO EN Standards
- Comprehensive profile and surface compensations

- Advanced filter technologies
- Uni- / bi-directional scanning
- Linear, circular and ellipsoidal scanning
- Simultaneous data collection of up to 4 sensors
- Dedicated user management
- Up to 200 Mio. data points per raster
- Fast multithread technology

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