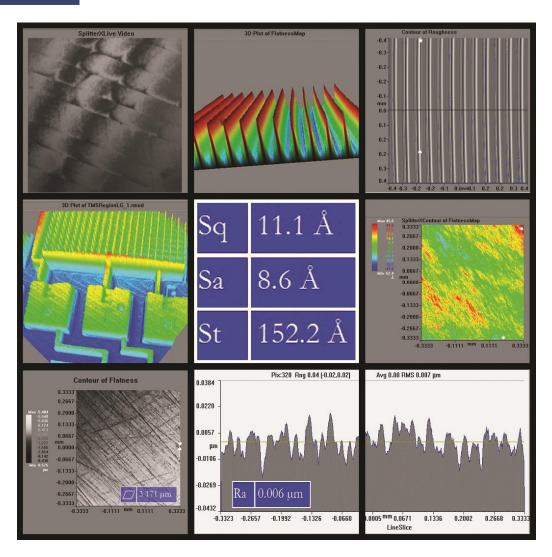


Tropel® FlatMaster® System with Surface Roughness Measurement



Key Benefits

- Improves product quality, manufacturing yield and throughput
- Lowers manufacturing costs
- Increases process understanding and reduces time to market
- Increases customer satisfaction

Powerful

 Measure key surface characteristics including lay, roughness, and all standard profile parameters for 2D and 3D standards

Flexible

- Measures a broad variety of materials and surface finishes
- Easy to configure measurement analysis
- Suitable for production, quality control, or R&D applications

Easy to Use

- Simply place the part on the system and in seconds you will have full profile analysis
- Automatic exporting enables seamless integration into your SPC system

Tropel® FlatMaster® System with Roughness Specifications

Performance

 2.5x
 10x
 20x

 Field of view
 8.0 mm
 0.8 mm
 0.4 mm

 Lateral resolution
 4.4 um
 0.96 um
 0.48 um

Measurement method White Light Scanning Interferometry

Measurement time 15 seconds typical
Auto Focus 5 seconds typical

Measured data points up to 1.0 million per measurement

Materials Metals, glass, polymers, ceramics, and many others
Surfaces Fine-ground, lapped, polished, super-finished and others

Accuracy and Repeatability

RMS

Repeatability*0.01 nm (0.0004 μin)Resolution0.02 nm (0.0008 μin)

Tropel Metrology Software (TMS5™)

Standard Parameters Flatness, line profile, surface profile, Sa, Sv, Sz, Sp, Ra, Raa, Ryni, Rq, Rrms, Ry, Rp, Rt, Rsk,

Rku, Rzdin, Rtm, Rzjis, and others.

User-defined Report Layouts User-configurable including: OpenGL® 3-D, 2-D, line trace (X/Y, radial, circular), color contour,

isometric, histogram, user-defined tolerances, pass/fail criteria

Data Management Available in report layouts, also MS Excel®, CSV, optional export to industry standard database

formats.

Environmental and Facility

Temperature 15 °C to 25 °C (59 °F to 77 °F)

Rate of temperature change < 1.0 °C per hour

Vibration Isolation Passive isolation included

Humidity 5% to 95% relative humidity, non-condensing

Power 100-240 VAC, 50/60 Hz, 4 Amp

Air/Vacuum Not-Required

System Dimensions (W x D x H)

Depends on configuration

System Weight

Depends on configuration

Standard System Configuration

Computer Windows® x64 based PC
Software TMS5™ Analysis software

Traceable artifact Optional

For more information about the Roughness option, or any of the other Tropel® Metrology Instruments, please contact:

CORNING

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^{*} Refers to instrument limited Accuracy and Repeatability (10) as based on measurement of traceable artifact