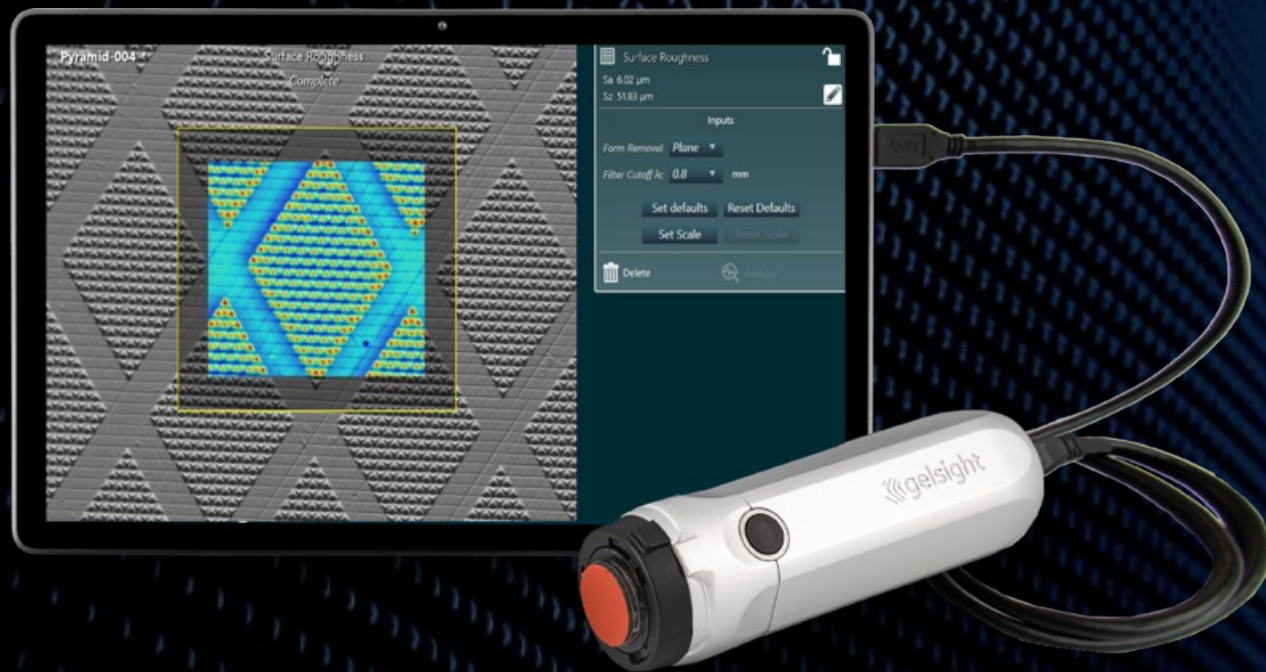




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TACTILE INTELLIGENCE // SOLUTIONS OVERVIEW 2024

Introduction to GS Mobile 3.7



- Introduction to GS Mobile 3.7
- Introducing Shock Protected Mobile Series 2
- A New Methodology for Evaluating the Cleanliness of Components
- Use Cases in Cold Rolling and Metal Extrusion Markets



Agenda

- New Features

- API
- X3P Export
- Chinese (Mandarin) translation
- Bug fixes



GSMobile 3.7

API Requirements/Environment

- Windows OS 10 and 11
- GSM Async API is delivered as a .NET DLL
- Visual Studio .NET desktop development installation enables Windows Presentation Foundation (WPF) desktop apps
- .NET8 SDK must be installed on the computer
- DLL can then be linked into multiple programming languages for a custom app
- TCP socket connection allows running the custom app on same device as GS Mobile or on a networked computer
- GelSight API demo available: <https://github.com/gelsightinc/apidemo>

API Capabilities

- Actions – can be requested by app developer via the DLL
 - Example requests:
 - Scan paths
 - File names
 - Analysis names
 - Live view on/off
 - Heightmap creation (auto alignment, form removal, replica on/off)

API Capabilities (cont.)

- Events – reports state changes occurring in GS Mobile
 - This includes:
 - Probe connection state and status changes
 - Gel changes
 - Scan acquisition -> completion changes
 - JSON format (can use free Json.NET library to parse data)
 - Heightmap generation -> completion changes
 - Analysis initiation -> completion changes
 - Shapes (JSON array 1)
 - Routines (JSON array 2)
 - Scan deletion and error messages raised

API Settings in GS Mobile

** Available in 3.7 PRO license*

API

☐ Enable API Server

IP Address: 172.20.4.117

Server Not Running

☐ Allow Remote Access

Password

.....

Confirm Password

.....

Port Number

9002

Apply

Cancel

- Equipped with a cured silicone sleeve plus a lanyard
- Delivered in an Orange case

- P/N: MB3-00024
- Pricing: \$23,500
- Lead time: 4 weeks



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Shock Protected Mobile Series 2



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A New Methodology for Evaluating the Cleanliness of Components



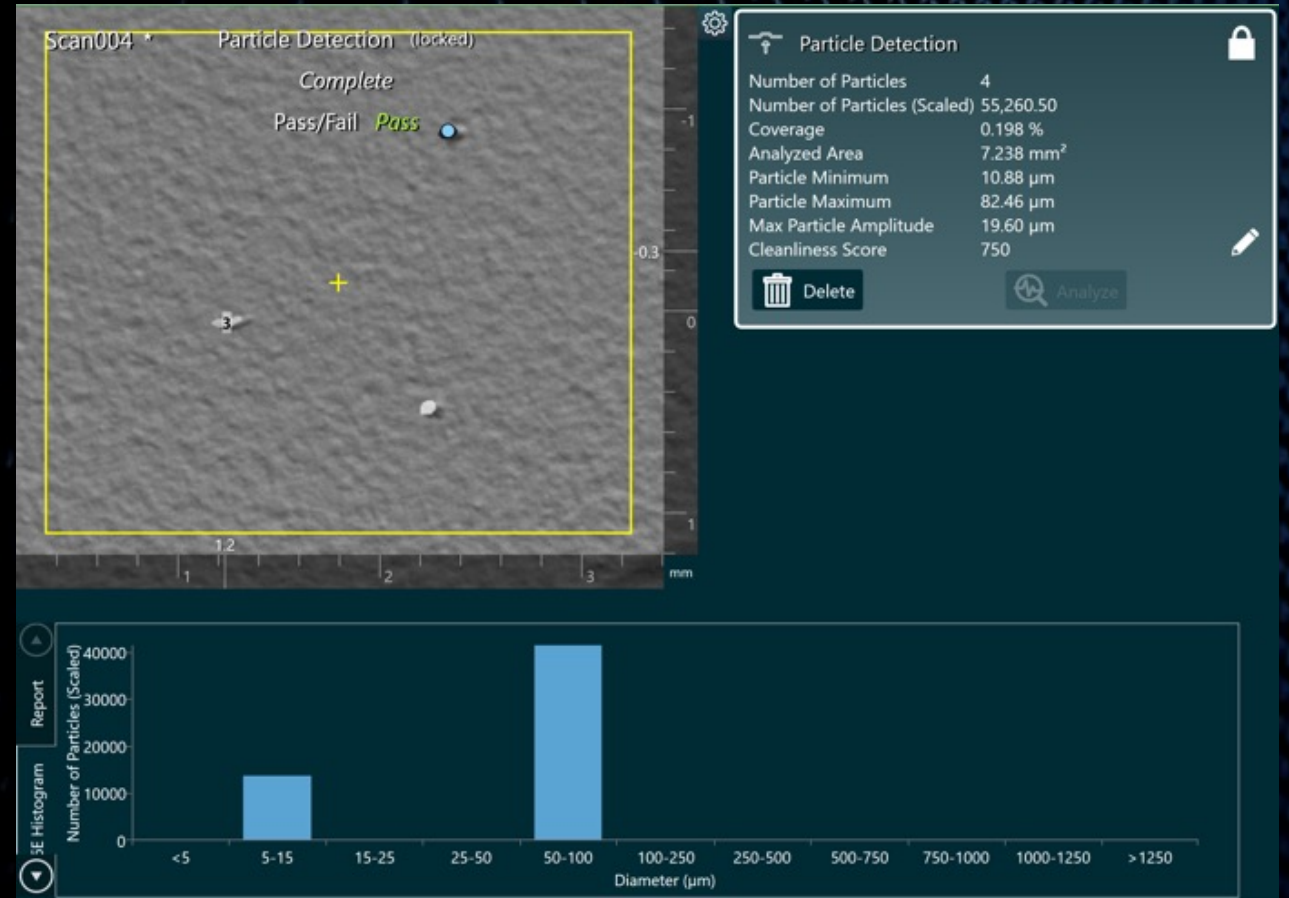
Surface Quality Control of Mill Rolls

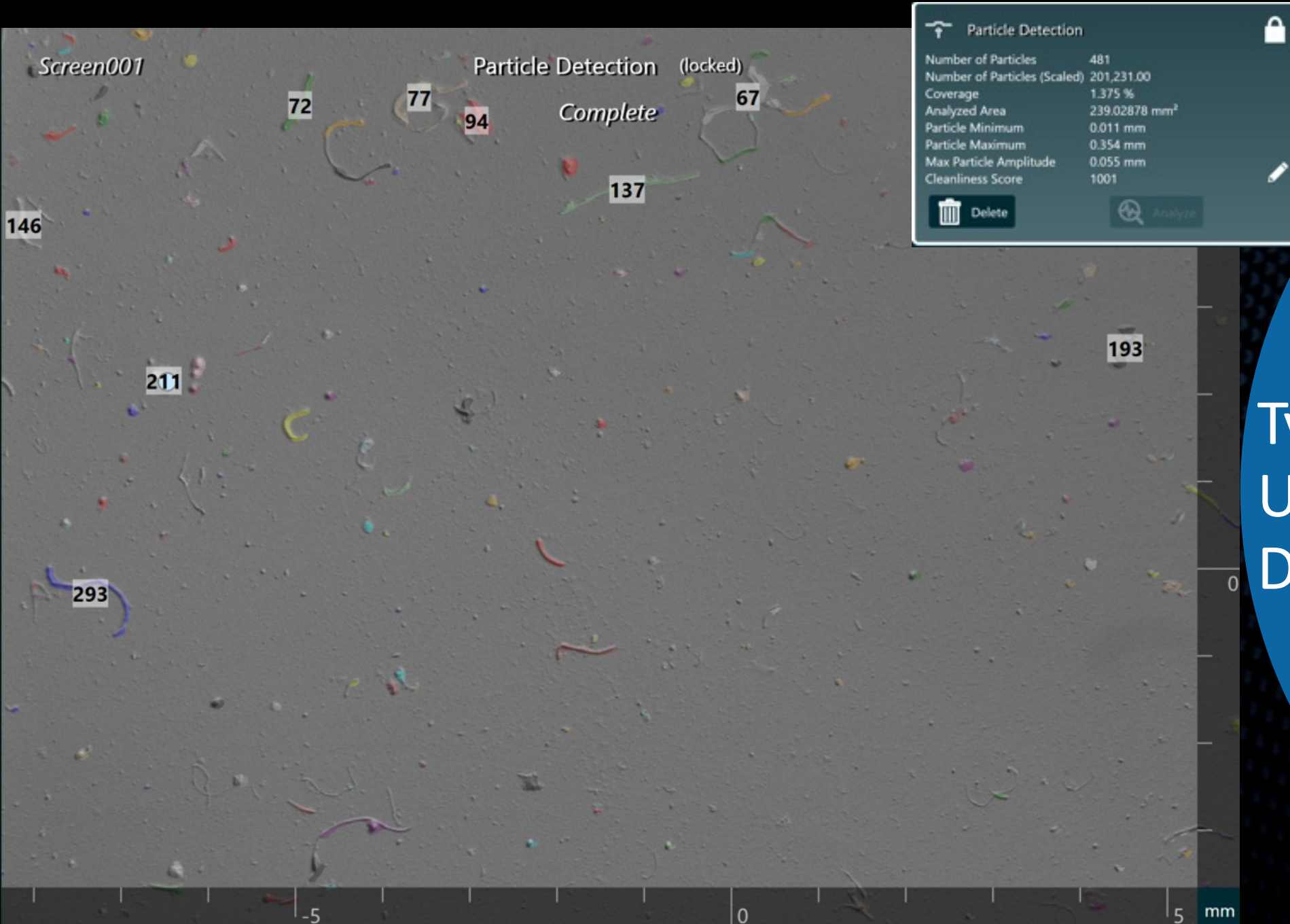
- Contamination is a major concern in some industries such as space, medical, semiconductors
- Particle contamination has created major problems in the past decades and is considered as a critical topic by the space industry
- GelSight and an OEM Space manufacturer have developed a new methodology to measure the cleanliness of components according to CC1246E Standard



Particle Detection Best Practices

- Use with MB011 gel
- Clean MB011 gel with blue painter's tape between scans
- If any damage present on gel, define region of interest
- Adjust Clipping Plane and Nominal Feature Size in Advanced settings as needed, especially on more textured surfaces






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Typical Analysis
Using Particle
Detection

- Results of the Particle Detection analysis are displayed in a table and a histogram according to the CC1246E Standard

Data Display According to CC1246E Standard

