ML 3000™ Inspection System… bringing FPI into the light!
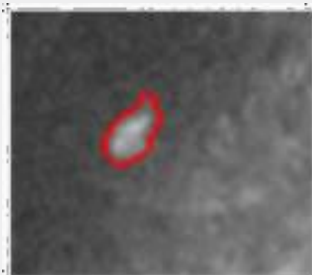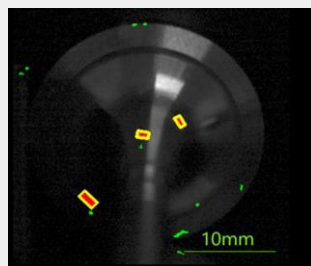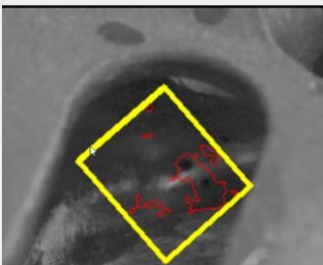

- **Automated NDT inspection in high volume manufacture**

- **BiNDT Nemet award winner 2020**

- **European Investment Casters' federation 2018 award winner**

The ML-3000™ daylight fluorescent scanner provides fast and accurate detection of fluorescence signals in environments with strong background light.

This revolutionary inspection system for the aerospace, automotive and associated industrial sectors, **provides 100% QA** , and improved gauge R&R, typically **cutting inspection costs by 90%**, with **a payback period from as little as few months**.

INSPECTION TECH
See through the noise

Scanning Small Complex Parts
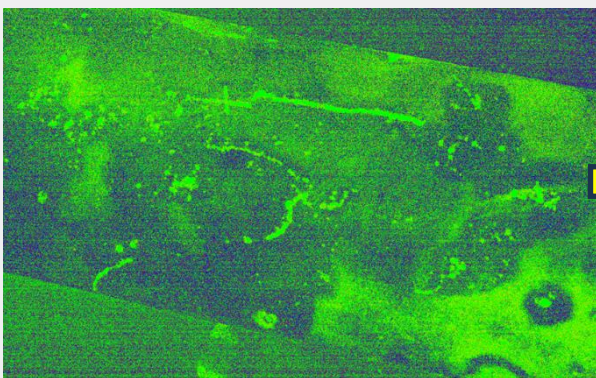Detects **every** indication on **millions** of parts.
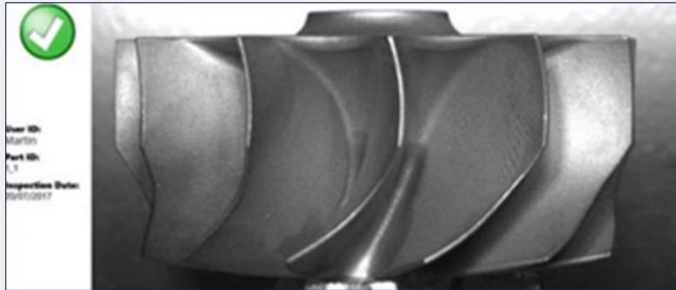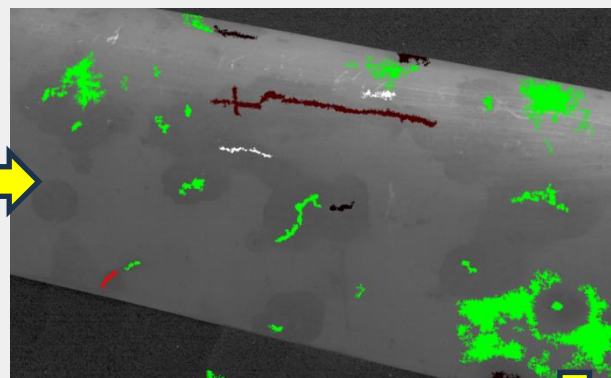

Part Passed
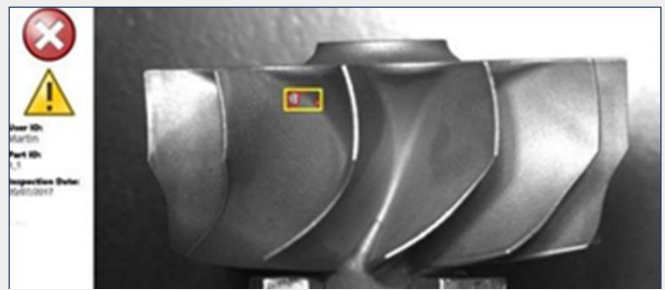
Part FAILED

User Defined Acceptance Criteria
Software filters based on **intensity**, **size** and **shape**.


RAW FLUORESCENT IMAGE

DIGITAL REMOVAL OF BACKGROUND

Uses various digital filters to isolate user-defined indications based on their intensity, size and geometric shape.

OPPOSITE: abstraction of cracks from raw image based on minimum size and geometric shape criteria. Bright red designates brightest indication, white designates least bright, and possibly false , indication.
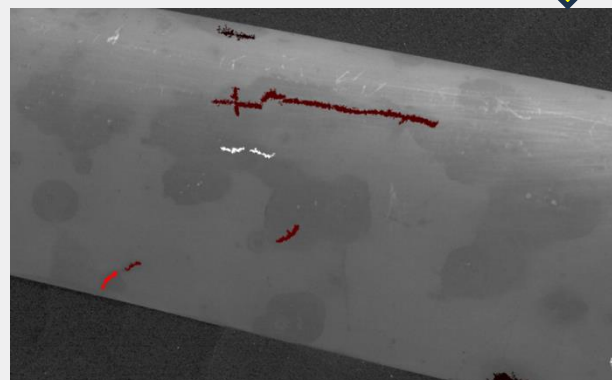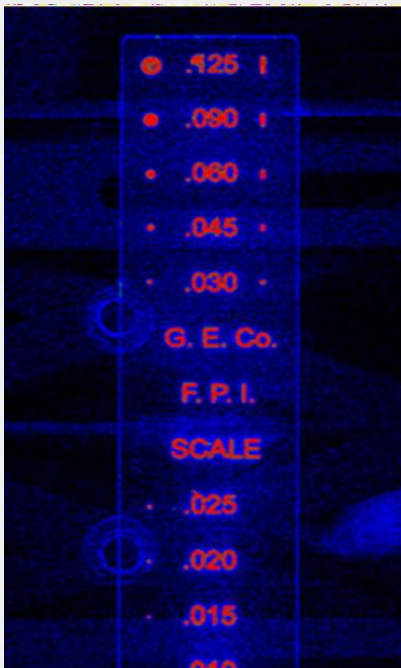

APPLICATION OF SHAPE FILTER TO DISPLAY CRACKS

INSPECTION TECH
See through the noise

Can find size and count clusters, and measure the spacing between them
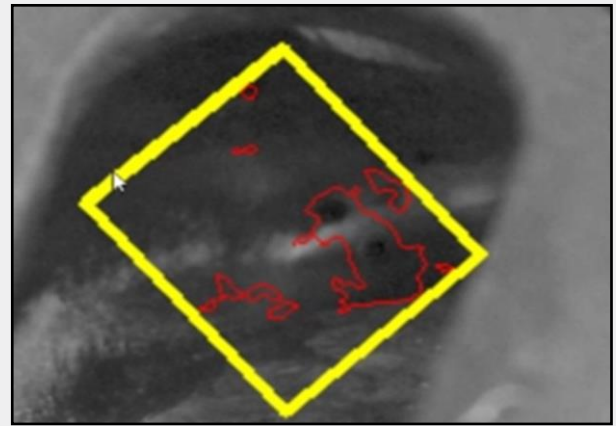
Extreme sizing accuracy.

Calibrated Standard/ Inches	15 Averages/ Inches	RMS Difference/ Inches
0.125	0.126	0.001
0.090	0.092	0.002
0.060	0.061	0.001
0.045	0.046	0.001
0.030	0.029	-0.001
0.025	0.026	0.001

Gauge R&R

TAM Panel

**IN DAYLIGHT**

SIMULTANEOUS ,
Real-Time Image
by ML-3000™
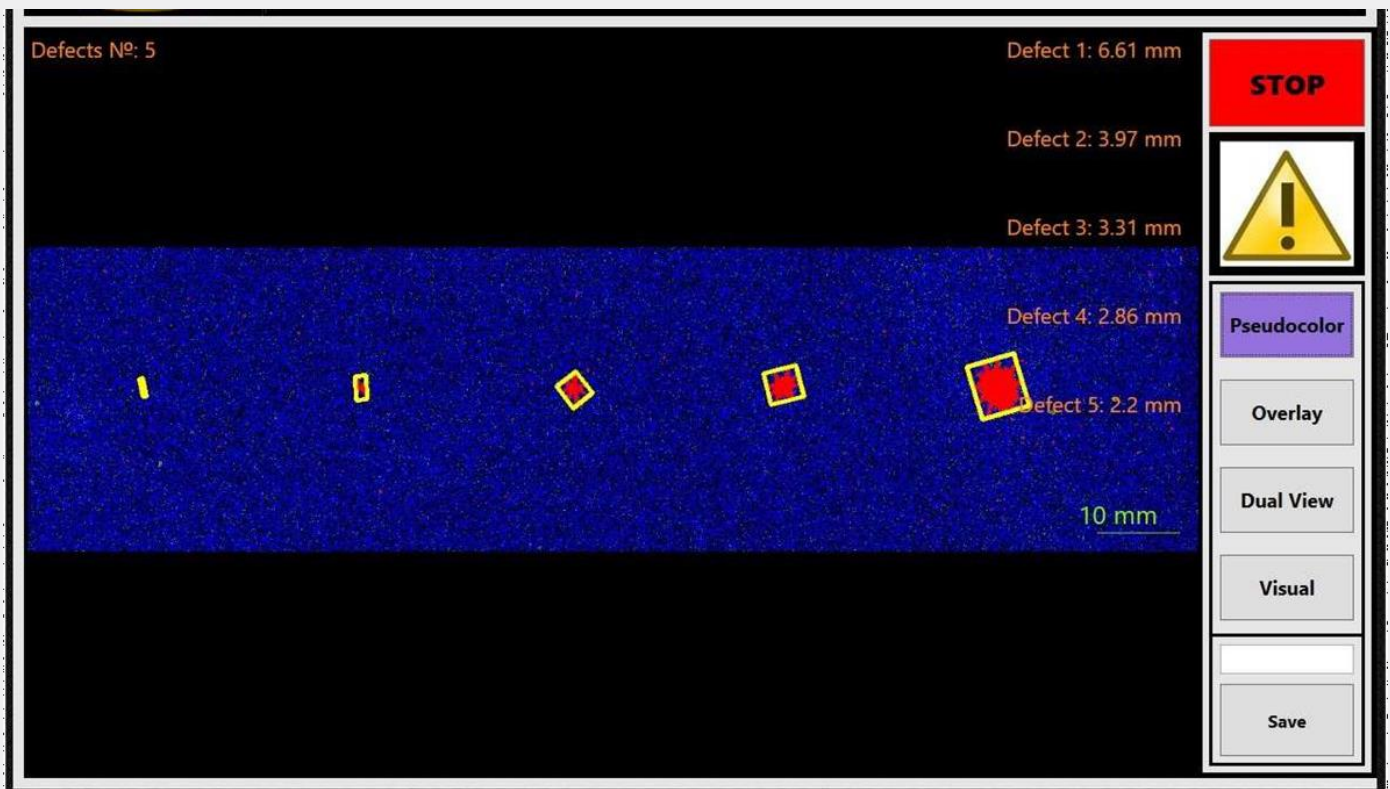
Extracts levels of fluorescence in daylight too low to be seen by the human eye and automatically sizes them to TAM panel tolerances.

INSPECTION TECH
See through the noise

Self-Contained UV
Source circling the
camera

High-Grade Industrial
Camera with Software
Controlled Focusing

Patented "Mixed Light"
technology allows FPI
indications to be seen
in bright light.

INSPECTION TECH
See through the noise
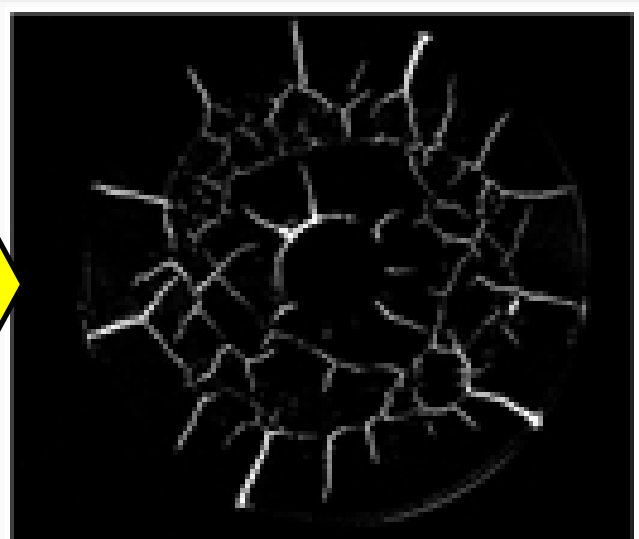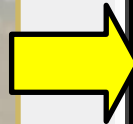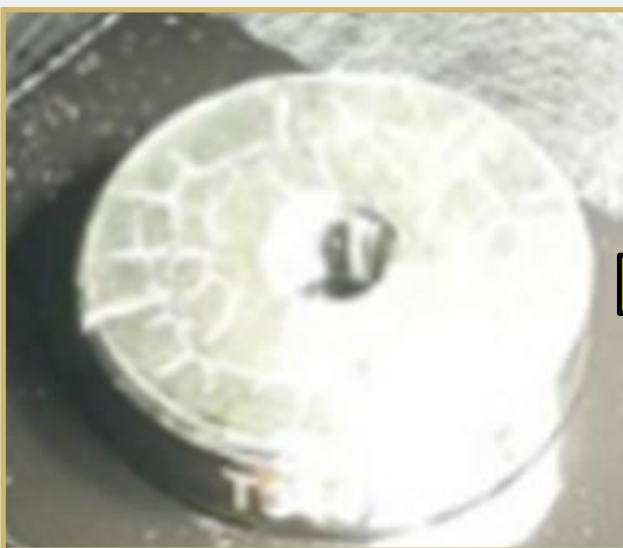
The ML-3000™ system is a software-based detection system rather than the human eye.

Fully compatible with:-

- The requirements of ASTM 2297

- The E 165 and E 1417 standards

- **100% inspection and 100% Quality Audit**

- **Improved Gauge R&R: Approved & used by PCC Structural**

- **Significant operational cost savings**

- **Increased productivity**

- **Avoids operator fatigue**

- **No dark room or separate enclosed inspection cell required**

- Scanning Unit with Inbuilt UV Source

- Ruggedized Industrial PC

- Automated Inspection and Detection Software

- User's Manual

- An Individual "Passport" that contains all necessary Certificates of Conformance

- Free Technical Support and Remote Assistance

ML-3000™ System is covered by TWO YEAR Warranty

INSPECTION TECH
See through the noise