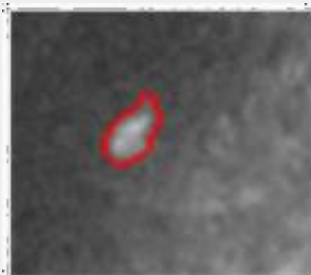
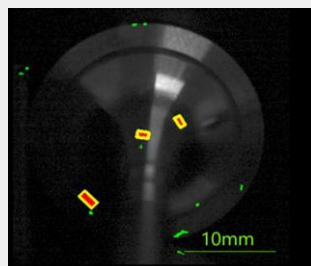
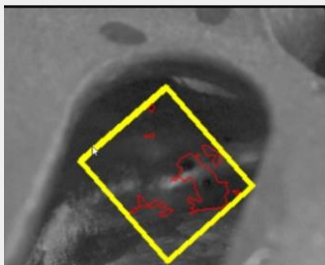


# ML 3000™ Inspection System... bringing FPI into the light!



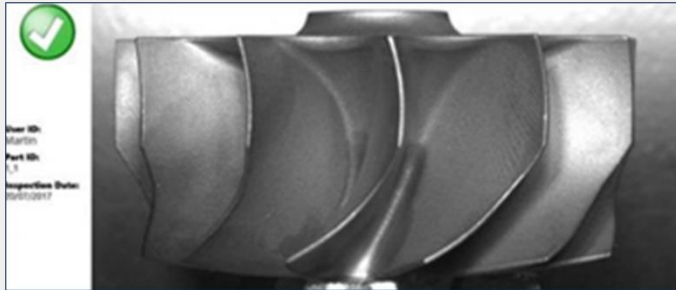
- Automated NDT inspection in high volume manufacture
- BiNDT Nemet award winner 2020
- European Investment Casters' federation 2018 award winner

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

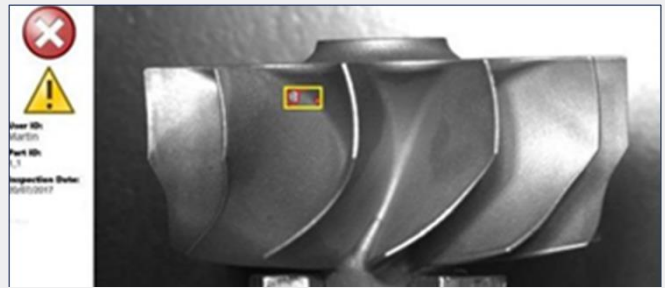
This revolutionary inspection system for the aerospace, automotive and associated industrial sectors, **provides 100% QA**, and improved gauge R&R, typically **cutting inspection costs by 90%**, with a **payback period from as little as few months**.

# Scanning Small Complex Parts

Detects **every** indication on **millions** of parts.



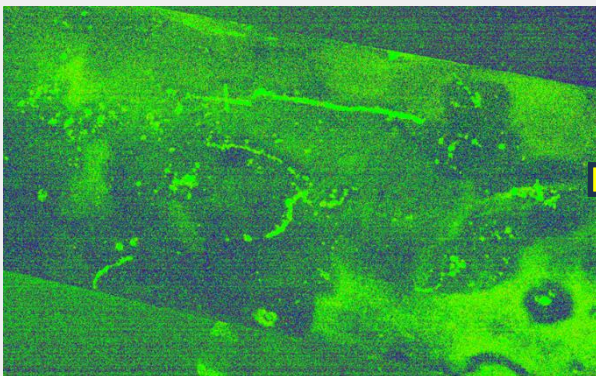
Part Passed



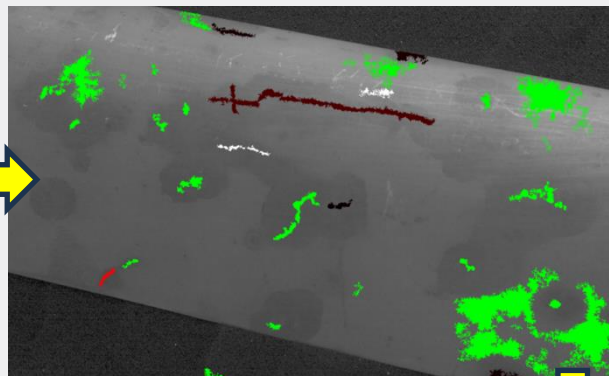
Part FAILED

## User Defined Acceptance Criteria

Software filters based on **intensity**, **size** and **shape**.



RAW FLUORESCENT IMAGE

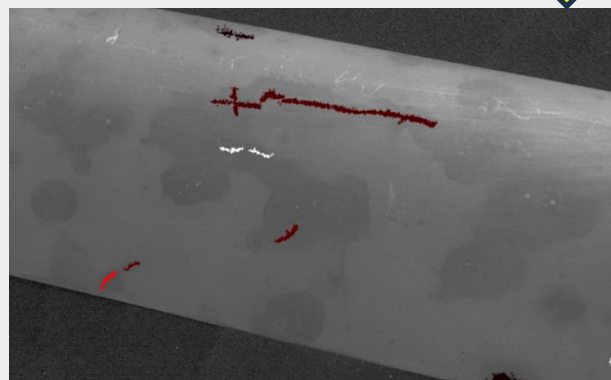


DIGITAL REMOVAL OF BACKGROUND



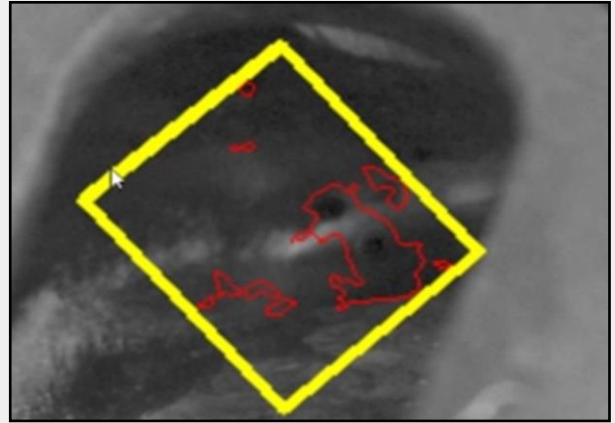
Uses various digital filters to isolate user-defined indications based on their intensity, size and geometric shape.

**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.

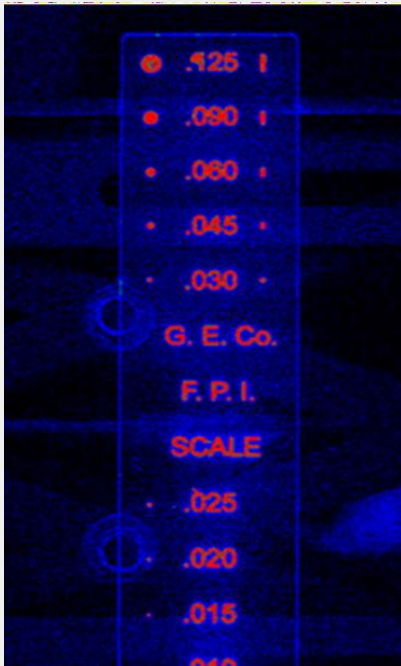


APPLICATION OF SHAPE FILTER TO DISPLAY CRACKS

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

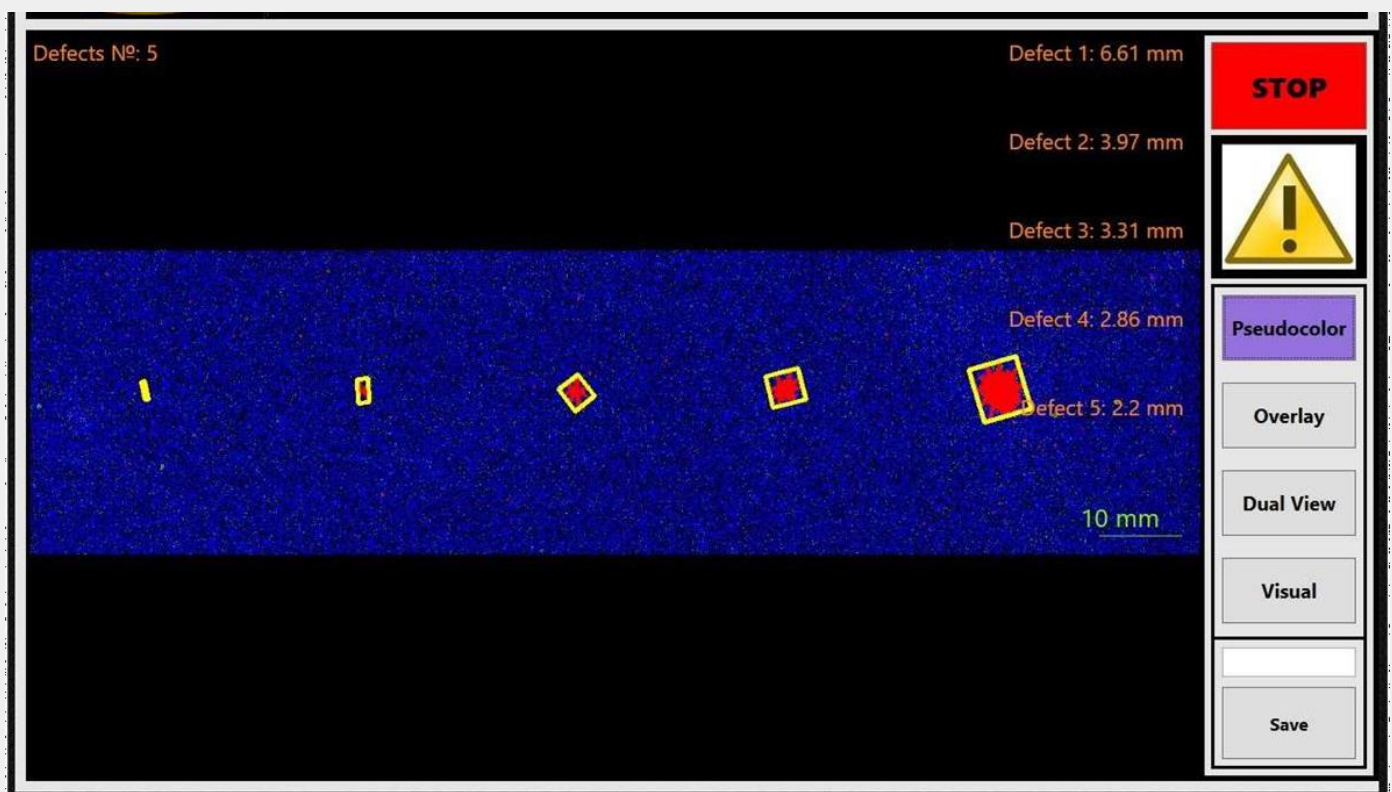
Gauge R&R





**TAM Panel  
IN DAYLIGHT**

**SIMULTANEOUS ,  
Real-Time Image  
by ML-3000™**



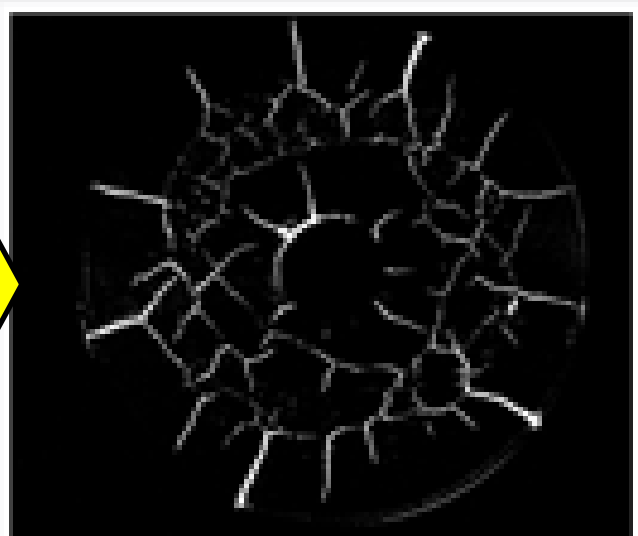
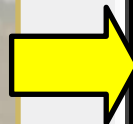
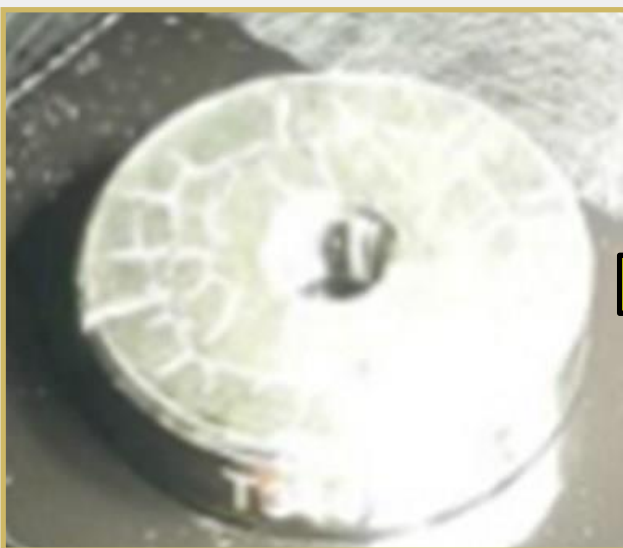
Extracts levels of fluorescence in daylight too low to be seen by the human eye and automatically sizes them to TAM panel tolerances.



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.



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**

