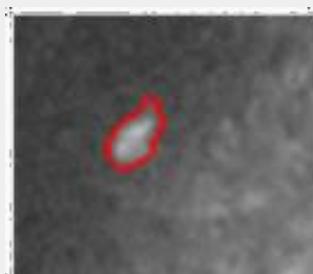
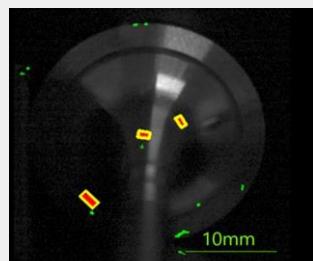
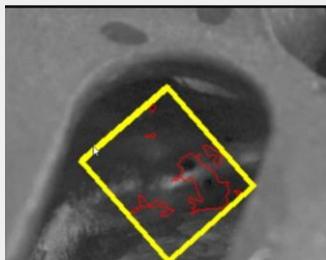


ML 3000™ Inspection System... bringing FPI into the light!



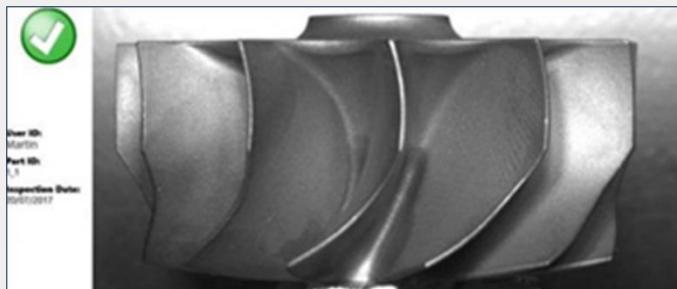
- **Automated NDT inspection in high volume manufacture**
- **BiNDT Nemet award winner 2020**
- **European Investment Casters' federation 2018 award winner**

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

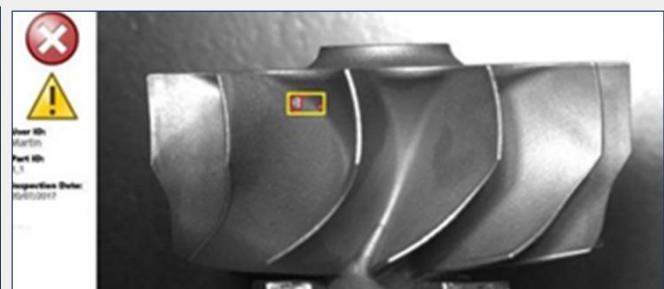
This revolutionary inspection system for the aerospace, automotive and associated industrial sectors, **provides 100% QA**, and improved gauge R&R, typically cutting inspection costs by 90%, with a payback period from as little as few months.

Scanning Small Complex Parts

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



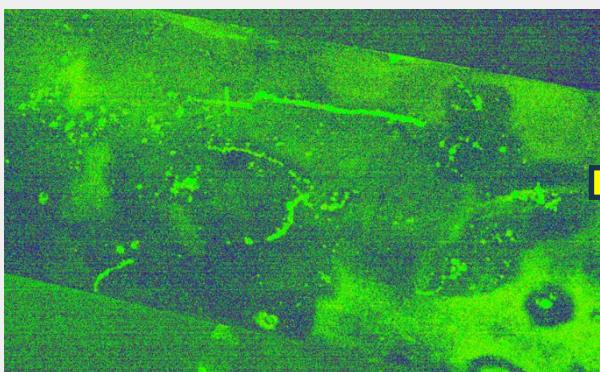
Part Passed



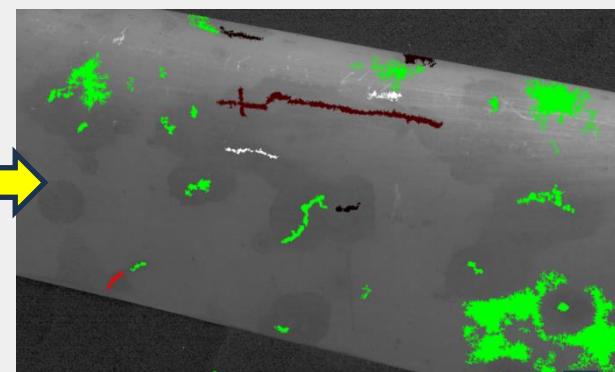
Part FAILED

User Defined Acceptance Criteria

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



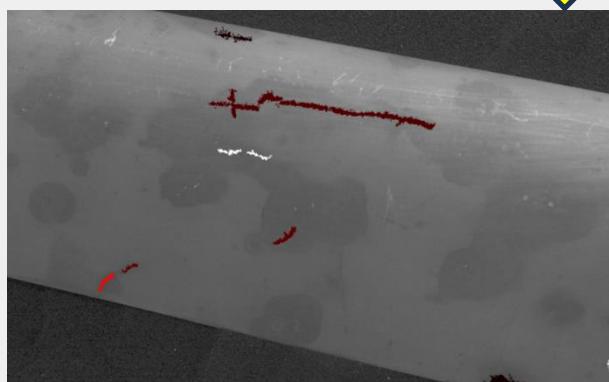
RAW FLUORESCENT IMAGE



DIGITAL REMOVAL OF BACKGROUND

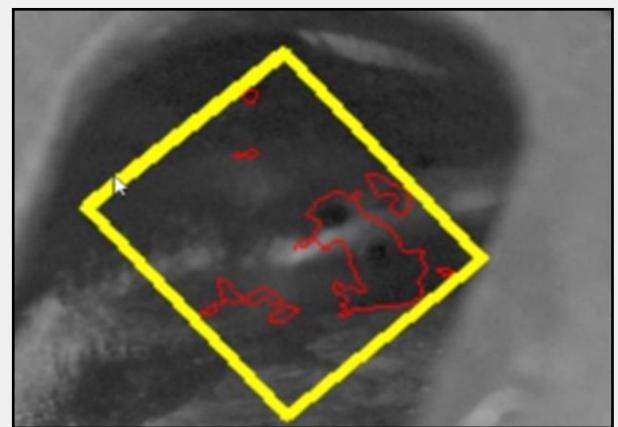
Uses various digital filters to isolate user-defined indications based on their intensity, size and geometric shape.

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.

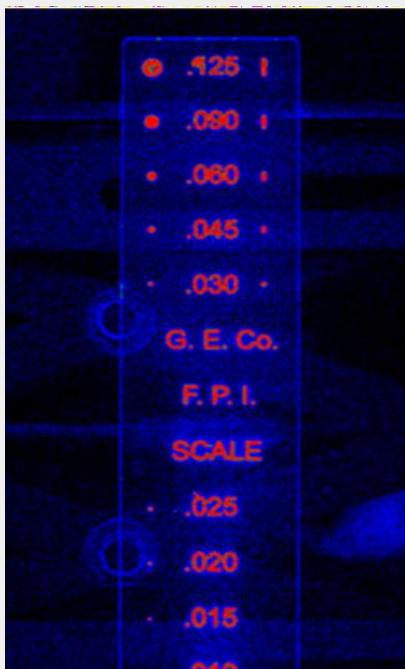


APPLICATION OF SHAPE FILTER TO DISPLAY CRACKS

Can find size and count clusters, and measure the spacing between them



Extreme sizing accuracy.



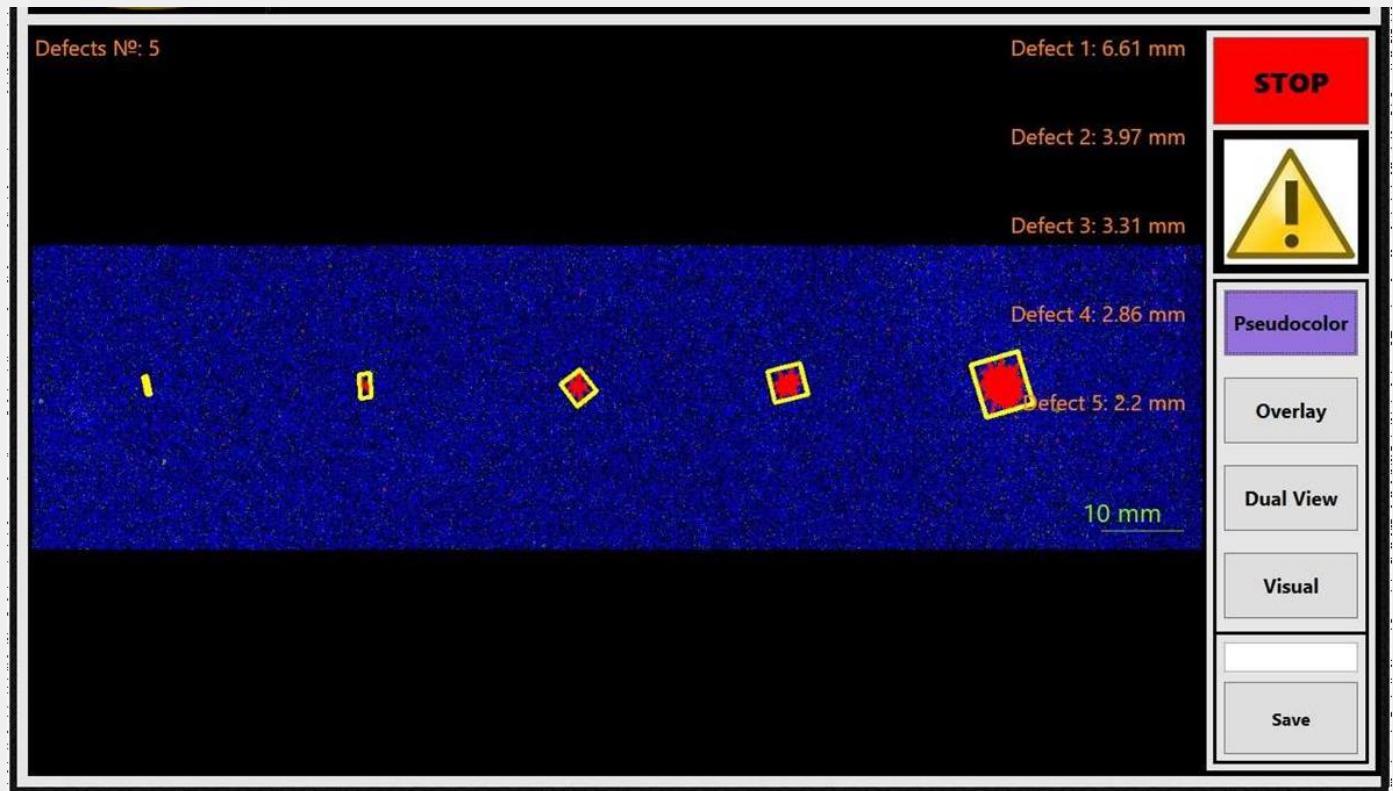
Calibrated Standard/ Inches	15 Averages/ Inches	RMS Difference/ Inches
0.125	0.126	0.001
0.090	0.092	0.002
0.060	0.061	0.001
0.045	0.046	0.001
0.030	0.029	-0.001
0.025	0.026	0.001

Gauge R&R



TAM Panel
IN DAYLIGHT

SIMULTANEOUS,
Real-Time Image
by ML-3000™



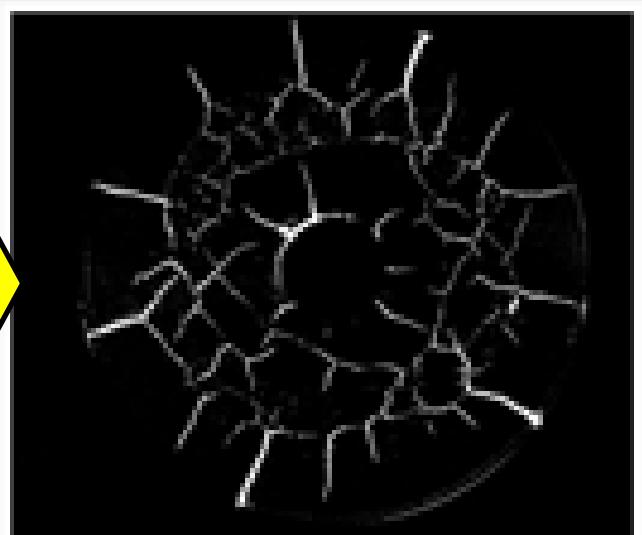
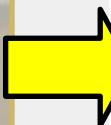
Extracts levels of fluorescence in daylight too low to be seen by the human eye and automatically sizes them to TAM panel tolerances.



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

